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# "GARDEN and FARM" Incorporated with Green's Fruit Grower, May 15th, 1902.



Twenty-fifth Year.—No. 4.

ROCHESTER, N. Y., APRIL, 1905.

Monthly, 50 Cents a Year.

## Our HEALTH DEPARTMENT

**Better Than Doctor's Visit.**—I appreciate the value of the page in Green's Fruit Grower devoted to good health. I have heard many of my friends speak of the value of this health page, which has in many instances saved the expense of employing a physician. How willingly we pay a doctor \$2 for a visit whereas the twelve issues of Green's Fruit Grower for one year with its health pages gives far more information than any doctor could give at one visit or at a number of visits.

**Care of the Feet.**—I have a friend with calloused patches on both little toes of the feet which have become so painful as to make life scarcely worth living. The little toes are deformed and look more like big boils than anything else. It is impossible for this friend to wear ordinary shoes any length of time. This painful condition might have been avoided had the calloused patches on the toes been removed once a month, or possibly once in two months by a chiropodist. There are many persons who can remove the callous spots themselves with a sharp knife or razor, but when the calloused spots get sore you should go to a skilled chiropodist, paying him fifty cents for having both feet carefully treated. In paring the calloused spots, or corns as they are often called, the unskilful person is liable to cause the blood to flow in which case the toe may be sore for some time so as to disable the patient.

**Cause of Colds.**—Enthusiasm sometimes causes colds. I recently caught cold by enthusiasm in dishing out a gallon of ice-cream on a cold wintry day without an overcoat. Our enthusiasm or our zeal leads us to forget such important affairs as proper protection. One may be so enthusiastic over music as to stand on a windy street corner to hear a band of musicians play and thus take a cold that may result in death. Or one may be so desirous of hearing a lecture, a sermon or a song as to sit in the draft of a window or door when they should have retired. Possibly I would have escaped this cold notwithstanding the exposure had I not been out late for three successive nights, something unusual for me, which depleted my vitality leaving me an easy victim. When one is partially exhausted he should be exceedingly careful about exposure.

**Six Ways of Getting Appendicitis.**—Errors of diet, immoderate eating of ordinary foods, or eating of improper foods.  
Taking cold.  
Lodgment of foreign bodies in the appendix.  
Indigestion and constipation.  
External injuries.  
Typhoid fever and tuberculosis.

**Remedy for Poison.**—If poison has been taken a teaspoonful of ground mustard in a glass of water, stirred and swallowed quickly will act as an emetic and the poison will be thrown up. After vomiting swallow the whites of two eggs.

**For Croup.**—I have two children subject to croup. All I ever use is kerosene

to bathe the throat and chest, and a few drops on brown sugar internally; and relief invariably comes in a short time. For cold in the throat, with difficult breathing and soreness in chest and lungs, try mutton-tallow melted and stirred stiff with granulated sugar, and taken warm. You will be agreeably surprised at the result.



This photo-engraving is from a photograph of characteristic specimens of Abundance and Burbank plum trees at Hillcrest orchard, Kentville, N. S. Plum trees are planted as fillers in an apple orchard.

**Apples are Healthful.**—A good ripe raw apple is one of the easiest substances for the stomach to manage, and while the apple is worth more as a health giver in its natural state it is also exceedingly wholesome cooked. Apple sauce eaten with pork assists in the digestion of the meat, and many persons who cannot eat pork without discomfort can do so if accompanied with plenty of well cooked apple sauce not too sweet.

**Wonders of Antiseptic Treatment.**—A report on the benefits of antiseptic treatment of wounds prepared by a member of the medical corps of the army contains some remarkable statements. It is asserted that during the Civil war the recoveries from gunshot wounds, in the absence of antiseptic treatment, were 46.3 per cent. In the Russo-Turkish war antiseptics were used for the first time on a large scale, and the recoveries were 88.9 per cent. Most amazing is the statement that the records show a clean score of 100 per cent. recovery for the Santiago campaign, which means that not one wounded man died after getting into the hands of the surgeons. In the absence of positive information to the contrary the truth of the statement cannot be denied, but it seems utterly incredible.

**Home Made Filter.**—The poorest family that lives may have a filter by taking a common 5-cent flower pot of earthenware, putting in the hole a piece of thoroughly cleaned sponge; over that a couple of inches of sand; over that again about half as much clean, coarse gravel; and then the water; slowly filtering through, must needs have been very bad at the start not to be very pure at the end.—Harper's Bazar.

**Chances of Long Life.**—We should be afraid of the fear of death—not of death itself. If we follow this rule there is no reason why we should not all become centenarians—so we are told in the Revue d'Economie Politique by M. Jean Finet. This author begins an article on the limitations of life by mentioning some traditional long lives. Among

these cases are those of a resident of Goa, who is said to have reached his 400th year in the enjoyment of all his intellectual faculties; a Scotchman who lives to be over 200 years old, and various monks of Mont Athos who have reached 160 years. He asserts that Serbian statistics for 1897 show three persons between 135 and 140 years old, eighteen from 126 to 135, 123 from 115 to 125 and 290 from 105 to 115. In 1890 there were, he says, in the United States, 3,951 persons over 100 years old, and 21 in London. M. Finet cites a mathematical formula, which he credits to Dr. Richardson, by which any one may get an idea of his probable length of life. It is only necessary to add the ages of one's father and mother to those of one's two grandfathers and two grandmothers, and the total divided by six indicates the exact number of years one should live. M. Finet does not believe that the average length of human life has been reduced. On the contrary, he believes, that it is constantly increasing, owing to the progress of hygiene. Why do we grow old at all? The writer answers:

"For three reasons: (1) Want of physical exercise in the open air; (2) poisoning by microbes, which the phagocytes have not succeeded in destroying; (3) fear of death. It is hard to imagine the importance of this last element. If a man fears death, it will carry him away. And yet it is quite pleasant to die; no sensation could be compared to it."

Celery is said to be excellent for the nervous system, and is also recommended as a remedy for rheumatism and neuralgia. It may be taken in the natural state or in salads and soups. Of course large quantities must be used to be effective.

**Tobacco is a drug.** Its principal constituent is nicotine, which, excepting prussic acid, is the most deadly poison known to chemistry. It is so-called from John Nicot, a French ambassador who introduced the herb to Queen Catherine of France in 1560, says Gospel News.

Nicotine lowers the circulation, quickens the breathing, and excites the action of the muscles at first, but its final effect is general exhaustion. There is enough nicotine in one cigar, if given in a pure state, to kill two men.

The Indians poisoned their arrows by dipping them into the drug. A single drop taken from a pipe stem and placed on the tongue of a cat will kill it almost instantly. If given to a dog he will die in spasms.

Tobacco in its nature is both a narcotic and an emetic. As a narcotic it seems to quiet, while it really is doing an injury. Because it is an emetic the stomach will seldom retain enough to produce death at once, and thus the system is slowly but surely poisoned.

Nicotine poisons the stomach, affects digestion, produces dyspepsia, and renders the whole system liable to disease. The system tries to throw off the poison, but soon it permeates blood, bone and muscle.

The tobacco user derives no real benefit from its use. It nourishes no man, clothes no man, instructs, purifies, and blesses no man; its use yields no interest, nor is there any value or dividend received from it.

**Strawberries and Rheumatism.**—Strawberries are excellent in the treatment of rheumatism and gout, and in this statement we voice a popular sentiment. There is not a gardener who will not state that this assertion is well founded and that all varieties of the berry are good for this disease. Much time has been taken in seeking to discover the nature of the remedy and two chemists have just succeeded in clearing up the difficulty. MM. Portes and Desmoulières have discovered in the savory juice of nearly all the varieties of the berry one of the most efficacious remedies for the relief of rheumatism, namely, salicylic acid. Rheumatism and the gouty absorb the very thing that they need in eating as many as possible of the luscious strawberry.

**Nuts, grains and fruits constitute anti-rheumatic diet.** All the foods that the earth produces are free from uric acid. There is not enough of it in any natural food to be productive of any possible harm. It is only when we eat forbidden food that we are likely to take in uric acid. By forbidden foods are meant flesh foods of all descriptions—the flesh of a hen, for example, or of the scavengers of the sea, in the shape of oysters, shrimps, lobsters, or crabs or of anything else that lives in the water. Every dead animal contains uric acid. Simply leave out all corpses from your bill of fare, and you have nothing to fear from uric acid.—From Good Health Magazine.

**Try a Bran Bath.**—Women who suffer from weak circulation of the blood are being recommended to take bran baths. A quantity of ordinary bran is put into a bath of tepid water, and the rubbing of the rough particles of bran not only cleanses the skin, but has the effect of causing a slight chafing that sets up a healthy glow.





### "Ol' Nutmeg's" Sayings.

Written for Green's Fruit Grower by Joe Cone.

Aim high ef yew never pull the trigger.

Es a man thinketh so, few him, is his neighbor.

It uster be thet "talk is cheap," but now it's printer's ink.

A hen thet didn't go a-visitin' ev'ry chance she got wouldn't be a hen.

Don't worry about summer's not git'n' araound; it allus hez.

Ef a hoss is afear'd uv an autermobile it on'y goes tur show his intellergunce.

They's room enough at the top of the fella's up there would on'y hitch over a leetle.

Many a man who can't paddle his own canoe becomes the possessor uv a paow-er boat.

They's no need uv partakin' uv fur-bidden fruit ef yew raise plenty uv yewr own.

It is a good idee tew keep yewr han's out uv yewr pockets, also out uv the pockets uv other people.

A good many men take spring bitters not so much becuz it's spring but becuz the spring bitters are bitter.

Yew should allus listen tew the other fella's story in jest the same way like tew hev him listen tew yewr'n.

The reason thet so many men kick thet dore is thet they are tew lazy tew git a stick an' dew it in the proper way.

It don't cost much tew feed an' stable an autermobile, but it costs a good deal tew pay the funeral expenses uv its victims.

They's allus a good many ways uv lookin' at things, but the trouble is thet people don't take time tew use but one uv 'em.

Ef yew will take notice a good many people dew more foolish things thet fast day uv April than kick an ol' hat on the sidewalk.

Some men will pray incessantly fur rain then find all manner uv fault with the weeds thet spring up in their garden arter the shawwer.

They is allus more or less danger in walkin' tew fast. Ef yew bump intew anybuddy the consequences are apt tew be more shockin'.

**Potato Growers Organize.**—As the result of a conference at Purdue University, Indiana, a meeting was called for Indianapolis, at which time a permanent organization was effected. The object of the association is "to disseminate information, and increase knowledge of the production of potatoes in the state of Indiana, and to improve the quality and increase the yield. The fee for admission to membership and annual dues was fixed at \$1.00, the doors being open to all persons interested in agricultural pursuits.—D. F. Maish, Secretary.

**Plant a Banana apple tree.**  
Plant two apple trees, a Banana and a Fanny.

Plant three apple trees of Banana, Fanny and Yellow Transparent.

Plant four apple trees, Banana, Fanny, Yellow Transparent and American Blush.

If you wish to plant other apple trees plant Green's Improved Baldwin, Wismer's Dessert, Maiden's Blush, Spy, R. I. Greening and King.

On a memorial tablet in a church in England is this inscription: "This tablet commemorates a life that was an exemplification of the charity that never fails, the humility that never boasts, the patience that never tires, and the hope that never fades."

## RURAL TOPICS

**Easy Grown Asparagus.**—There are few readers of Green's Fruit Grower who realize how easy it is to have an ample bed of asparagus. The main requirement is that plants be purchased and planted. After that you will have plenty of asparagus, whether you care for it or not. But it pays to keep the asparagus cultivated and the ground well enriched. Grass and weeds however, do no great injury to the asparagus. If the ground is kept rich by annual dressings of barnyard manure the asparagus will force itself up through the grass or weeds. At the homestead where I was born my father never thought of weeding or hoeing the asparagus bed. The bed was thickly soddied with grass and yet the asparagus came up through the grass vigorously each spring. But neither in old times nor of late have the heads of families planted enough asparagus roots to give an ample supply. Asparagus is so delicious and so highly prized by every member of the family it is surprising how large a quantity will be consumed if it is ready to cut in a nearby garden. Five hundred roots are none too many to supply a good sized family. In planting asparagus many make the mistake of covering the crowns or the tops of the plants too deeply so that they are smothered. In planting dig a trench and place the roots in it with the crowns an inch below the surface, then draw the earth in, covering the top of the root slightly, not filling the trench full at the moment. Tramp in the earth and wait for the tiny shoots to start from the crown of the roots. After several inches of growth have been made then hoe in the soil and fill up the trench.

**Winter Nells** pears shipped to England by S. D. Willard, of Geneva, N. Y., netted him at the rate of \$11.50 per barrel. They were carefully selected specimens, each wrapped in paper and shipped in boxes. Wealthy apples shipped in the same manner netted him about \$3 per barrel.

When shipping fine varieties of apples, G. H. Powell finds that it pays to have a label and description placed both inside and outside of the box or barrel.

**Wayside Weeds.**—Some states that have laws that require the removal or destruction of weeds by the wayside roads are insisting on strict enforcement of the law. It is a question whether the farmer or the overseer of the highways or road commissioners should do the work of weed destruction. In some states railroads are compelled by law to destroy all dangerous weeds under penalty. Roadsides are a pregnant source for distributing weed nuisances on farmers' fields.

**Fraud in Seeds.**—The seed investigations of the Department of Agriculture have shown that large quantities of trefoil and other practically worthless seed are being imported for the adulteration of alfalfa and other seeds. About 450,000 pounds of Canadian blue grass seed are imported, the chief use of which is to adulterate the higher priced Kentucky blue grass seed.

### GRASS SEEDING AND THE HAY CROP.

Sixty years ago this spring I sowed a field to oats and timothy, using three bushels of oats to the acre and three pecks of timothy, and when the oats were cut the timothy all died. In September I seeded it again to timothy with rye. The rye was all right. Twenty-two months later I cut a poor stand of timothy. Now I get a good stand of grass in ten months. My next experience was in turning sod over flat September 1st, then harrowing and seeding to timothy. I tried that several times and found the new grass came up all right, but in the spring old grass came up and killed all the new grass out. I also found that old sod caused a premature drought. I found by the use of bone, potash and nitrate of soda, or their equivalent, with the grass seeding without grain and by the aid of intense cultivation I could maintain a continuous high crop standard.

I have tried all the different kinds of grasses singly and combined, with many of the different kinds together, have finally adopted two kinds, timothy and red top, as I have found that they work best together and would produce about a ton and a half more hay to the acre.—G. M. Clark, Higganum, Conn.

A subscriber asks whether Green's Fruit Grower would advise planting 3 year old currant bushes in bearing size in preference to 1 year old or 2 year old bushes, also whether there is anything gained in planting very large trees.

Our reply is that there is nothing gained in planting extra large currant bushes, or extra large fruit trees, or extra large trees of any kind. I prefer 1 or 2 year old currant bushes to 3 or 4 year old. Those who buy extra large trees are put to the expense of extra freight for such heavy packages, and such trees are really not so good and come into bearing no sooner than those of moderate size.

**Compost Heaps.**—Every place large enough to have a garden should also have a compost heap. This may be made with little cost and labor to the farmer by putting into it all the animal and vegetable substances that otherwise would go to waste and in many cases poison the air and render it unhealthy. The provident farmer looks everywhere for material for the compost heap, and collects it from filthy places, such as drains, cess-pools, ditches, bogs, ponds and the like. This matter, along with the scraping of cellars, earth under barns, etc., collected together and covered with clay or loam, become harmless and at the same time valuable. Make the compost at a distance from well and cistern and as far from the dwelling house as may be. Beneath every heap that is built up see that there is an abundance of clay or loam sufficient to absorb all the soluble substance that drains from the heap and to prevent the moisture from sinking into the earth. With every addition to the heap place a layer on top of loam or other material to prevent the evaporation of gases from the pile. In this heap should be put all yard sweepings, suds from the laundry, turf, leaves, ashes, etc.

Any land that will grow corn will grow strawberries and the land that will grow the best corn will produce the biggest crops of berries, says Twentieth Century Farmer.

Strawberries should be preceded by a crop that has been kept free from weeds. I prefer potatoes. These are kept absolutely clean, so when the tops are raked and burned there is no litter left to bother.

Thoroughly pulverize the ground in the spring with cultivator and harrow. Firm with a float until a horse's foot makes very little impression.

I have found three feet eight inches the best distance between the rows. I use a four-row marker that is light enough to pull by hand.

The ground is loosened up in the row with a fourteen-tooth cultivator, from which all the teeth have been removed except the center one behind. If the ground is in good condition the soil will fall back into the furrow, leaving scarcely any gutter.

To set a strawberry plant, push your left hand into the ground the length of your hand and draw the dirt to one side; pick up the plant with your right hand, giving it a shake to spread the roots; drop into the hole and push the dirt back against it.

The Hallock weeder is the best tool I have found for cultivating strawberries. In the evening all the plants set during the day should be gone over with the weeder. If the plants are properly set it will not hurt them. Cultivate after every rain, and at least once a week.

Keep the runners trained along the row until the row is twelve to sixteen inches wide. After this use a runner cutter to keep the rows from getting any wider. I use a rolling coultter, which I push along wheelbarrow fashion.

**Fruit Raising in Europe.**—Throughout most of central Europe fruit trees are planted by the farmers and cottagers with judicious care and discrimination in their fields and gardens. In an ordinary season they gather abundance of luscious fruit—not only enough to supply their domestic wants, but also to send large quantities to market; from which they realize an acceptable increase to their income. This is all done without losing a square yard of ground that could be profitably devoted to any other food crop. The trees are planted along roadsides, on the margins of the fields, in the hedgegroves, and in other odd places and corners, where they occupy ground that cannot be conveniently or profitably cultivated.

### The Boy on the Farm.

Editor Green's Fruit Grower:—I see much in your paper about keeping boys on the farm. I am a farmer's son myself and am dissatisfied with the farm. I am 16 years of age and shall be graduated from High school in June, 1906.

It seems to me that more money can be made at something else and be done easier than by farming. I have an illustration in hand. I have five uncles, all brothers and smart men too. Three of these staid on the farm. One of the three ran a dairy of twenty cows for about three years. He worked on an average fourteen hours a day and hard enough to kill some Italians. At the end of three years after paying debts he had not 1 cent but a broken down constitution. The other two on the farm did a trifle better. The other two went at carpenter work. They soon had homes of their own, also a bank account. The first is earning \$90 a month with a prospect of doing better. The other one is earning \$75 a month with a prospect of doing better.

Now I do not believe that I was cut out for a farmer. In order to make money from a farm it must have skillful management. I have thought of taking a four years' course in electrical engineering at Cornell. Nothing I ever did on the farm received my father's praise even when I thought I was doing well. Please make comment on this letter by return mail. I can see many things in a farm to admire but many that are disagreeable.—Subscriber, N. Y.

### The Editor's Reply:

I myself was brought up on a farm, therefore I know how a farmer's boy views this subject. There is much in ordinary farming that is distasteful to the ambitious young man, and yet if I had a dozen boys I would desire that they should all be brought up on a farm. But after the boy has reached manhood if he finds farming distasteful he should be allowed to choose some other occupation. I believe that every man should select his life work since so much depends upon the selection. If the life work is not congenial no one can make a success of it. When I speak of the attractions of country life, I refer not so much to ordinary farming as I do to other methods of making farm lands yield profitably. There are many other ways than growing common farm crops. One of these ways is in growing large and small fruits; another is in raising poultry and fancy dairying; another is in growing trees, plants, roses and other nursery products. There are numerous ways of making the soil pay good profits aside from ordinary farming.

Some one has said that Mark Hopkins on one end of a log and a student on the other would make a university, says "Farm and Fireside." What school could impart the learning that the old farmer has hewn out of wood and stone and sod? And yet the boy who hungers and thirsts for that knowledge is but a boy to him—perhaps a lazy, shiftless boy, too bad to waste words on. The boy cannot go to college, because his father cannot or will not send him; and yet the old man, with a school in his own head covering nearly every point of practical farming from weeds to weather, deliberately shuts the door to the boy, and throws away the key. No wonder the boy is ignorant! The wonder is he isn't a criminal. Maybe he is. A farmer father should himself be a student of the farm, and his boy should be his fellow-student. The father should talk to the boy, explain the whys and wherefores, catechize him, teach him, drill him, until when he is able to count twenty-one years, he has graduated at the home school, and learned all that the father has learned in the hard, expensive school of that father's experience.

Third, give him an attractive home. This must be if you are to keep him on the farm. Make the home a place where he shall want to stay. Give him company and books and papers, a room of his own and decent furniture. Surround him with the most attractive farm literature. Wherever he turns let him find wise guidance in the line of his work. At first he may read sparingly; at last he will read eagerly. Thus you can almost bring the agricultural school into your own home. Books and papers in the line of farm work are offered on every hand, much of it of a high order. Buy it. Be extravagant in this if in anything.

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# SPRAYING DEPARTMENT

Containing Some Useful Information.

## WHEN TO SPRAY.

It is of the utmost importance that the first spraying should be done before all of the bloom has fallen. Begin with the early varieties and spray when nearly all the petals have fallen. That the first spraying should occur at just the right time is of more importance than all other spraying. The work should be completed within six days. When the only closes it prevents the lodgement of poison.

The second spraying should be done the following week. Its especial usefulness is to attend to such blossoms as escape the first operation. It is not wise to spray summer varieties the third time, but winter varieties in the latitude of Denver should be sprayed again between the first and tenth of July.

The first spray should be applied with power, using a fine gauge of the vermorel nozzle. To stop spraying when the leaves drip might be too soon. In later sprayings, however, apply just enough to wet the surface of the leaves since the intent is to deposit the poison there to destroy the young larvae hatching from eggs deposited on the leaf surface.

The codling moth does not travel far if there is fruit to be found near by. Your neighbor may not spray at all, but if he has an abundance of fruit the moth will make its home there instead of infesting the neighborhood.

The percentage of wormy fruit in orchards not sprayed as compared with orchards thoroughly sprayed is conclusive enough to clinch the argument past all question in favor of thorough spraying. Three unsprayed orchards averaged respectively 48 per cent., 77 per cent., and 99 per cent. of wormy apples. In another orchard sprayed three times the percentage of wormy fruit was only 2-3.

Hon. J. H. Crowley, Senator from Rocky Ford, one of Colorado's most practical orchardists, urges the necessity for extreme thoroughness of spraying. At picking time he is sometimes able to follow the spraying of a careless workman through the orchard by the percentage of wormy apples found. The average man neglects the tops of apple trees, 25 feet tall, and these tops may contain 50 per cent. of wormy apples. Last season he personally sprayed every tree in an orchard of 23 acres before the calyx closed with the highly satisfactory result that less than one-half of one per cent. of summer apples and less than three per cent. of winter apples were wormy.

Such spraying as this applied to our orchards would better the quality of our fruit, make it more salable, enable it to command higher prices and put thousands of dollars into the pockets of the commercial orchardists.—E. F. Stephens, Crete, Nebraska.

## SPRAYING OPERATIONS.

Editor Green's Fruit Grower: Prof. C. P. Gillette, of the State Agricultural College, an authority on spraying, said at the recent meeting of the Colorado society that any one who has more than 10 per cent. of wormy apples is not working on the best methods.

The codling moth winters in the larval stage until about blossoming time in the spring when it is transformed into a moth or miller. This deposits the eggs, a majority of which are laid out and may last as long as 59 days. The second brood comes out about July 10th in the latitude of Denver and may last equally long. Over most of the United States the two broods overlap one another, so that by time the first brood is passing the second is at work.

The most important spraying consideration is thoroughness. Many orchardists do not know when they are thorough. Thorough spraying means to inject at least some poison into the calyx of every blossom. Spray pumps geared to a wagon do not apply enough. A 50 gallon barrel is only sufficient for eight or ten trees of large size.

A few years ago London purple was the material used. This was abandoned because it does not always have the same strength. Arsenite of lime is nearly the same as London purple. There must not be any free arsenic in the solution as it burns the foliage. The use of arsenate of lead or disparine avoids this. It is not necessary to use any lime with disparine and any strength of this material can be used without burning the foliage. It should be used at the strength of four or five pounds to each 100 gallons of water. It sticks to the foliage well and it is not likely to lose its efficiency if a rain follows the spraying.

Dust Spraying.—This method of spraying fruit trees is new at the East but has been practiced for several years by Western orchardists with success. This season an apple orchard in Batavia, N. Y., has been treated by the application of dry sand and the usual chemicals with remarkable success. The apples of various kinds are remarkably free from fungus or other defects. This so-called spray is composed of sand with the same ingredients used in water. The sand is thrown by a current of air upon the foliage of the trees when they are wet with dew. My opinion is that this method would be more successful in a dry season than a wet one and in a dry state like Missouri than a wet state like New York. While I have not tried the sand spray my opinion is that it would wash off sooner than the usual water spray.

Bees Helpful to Fruit Growers.—The Oregon Experiment station reports experiments with bees on peach trees un-

## HOW AND WHEN TO SPRAY.

PLANT.	FIRST APPLICATION.	SECOND APPLICATION.	THIRD APPLICATION.	FOURTH APPLICATION.
Apple—(Canker worm, codling moth, bud moth, scale).	Spray before buds start, using copper sulphate solution.	After the blossoms have formed, but before they open. Bordeaux and Paris green.	Within a week after blossoms have fallen. Bordeaux and Paris green.	10 to 14 days later, repeat.
Ban—(Anthracnose).	When blossoms appear, spray with Bordeaux.	10 days later, repeat.	10 to 14 days later, weak copper sulphate solution.	Repeat last, if necessary.
Cabbage—(Worms, aphids).	When worms first appear, Bordeaux emulsion, whale oil soap, or Paris green.	If worms or aphids are present, repeat if plants are not heading, using emulsion for aphids.	If aphids persist, or if worms reappear, use Bordeaux emulsion. If insects are not heading, use water, emulsion for aphids.	After heads form, use saltpetre for worms, a teaspoonful to a gallon of water, emulsion for aphids.
Cherry—(Hot, aphids, curculio, and dog).	Before buds start, use copper sulphate solution. For aphids, Bordeaux emulsion.	When fruit has set, Bordeaux and Paris green.	10 to 12 days later, if signs of rot appear, repeat.	10 to 12 days later, copper sulphate solution, repeat.
Current—(Worms, mildew).	As soon as worms are seen, whale oil soap, or Paris green.	If they reappear, repeat, adding Bordeaux for mildew.	If worms still trouble, pyrethrum or hollock.	
Huckleberry—(Mildew, worms).	As leaves open, Bordeaux and Paris green.	In 10 to 14 days, repeat with both.	10 to 14 days later, sulphide of potassium on English varieties.	10 to 14 days later, repeat if necessary.
Grape—(Flea beetle, fungus disease).	Before buds burst, copper sulphate solution and Paris green.	When first leaves are half grown, Bordeaux and Paris green.	As soon as fruit has set, repeat.	10 to 14 days later, Bordeaux mixture, if disease is present.
Peach, Apricot—(Leafhopper, curculio, mildew and rot).	Before buds swell, copper sulphate solution.	As soon as fruit has set, Bordeaux and Paris green.	10 to 12 days later, repeat.	10 to 12 days later, repeat.
Pear—(Leaf blight, scale, psylla and codling moth).	Before buds start, copper sulphate solution.	Within a week after blossoms fall, Bordeaux and Paris green.	10 to 12 days later, repeat.	10 to 16 days later, Bordeaux.
Pine—(Black knot, rot, and all fungus diseases, curculio).	As buds start, copper sulphate solution. Cut out knot and burn.	When fruit has set, Bordeaux and Paris green.	10 to 12 days later, repeat.	10 to 20 days later, Bordeaux.
Potato—(Beetles, wash, blight).	For scale, wash seed in corrosive sublimate solution (1 oz. in 16 gallons of water for 30 minutes).	When beetles or their larvae appear, Paris green (1 pound to 100 pounds of plants).	Repeat whenever necessary.	When blight of the leaves is accompanied by rot of the tubers, Bordeaux.
Quince—(Leaf and fruit spot, rot).	Before buds start, copper sulphate solution.	When fruit has set, Bordeaux and Paris green.	10 to 12 days later, repeat.	10 to 20 days later, Bordeaux.
Raspberry, Blackberry—(Anthracnose, rust).	Cut out badly diseased canes. Spray with copper sulphate solution before growth starts.	When new canes are one foot high, spray with Bordeaux mixture.	10 to 14 days later, weak copper sulphate solution.	When crop is gathered, remove old canes, thin new ones and spray with Bordeaux mixture.
Strawberry—(Rust).	Just before blossoms open, Bordeaux and Paris green.	When fruit has set, Bordeaux or weak copper sulphate solution.	As soon as berries are harvested, Bordeaux (if to be kept longer).	

**SPECIAL NOTES.**—For BLACK KNOT on cherries and plums, cut out and destroy by burning the diseased parts as soon as discovered.  
For APHIDS on roses and all plants, use sulphate soap, or Bordeaux emulsion in weak solution.  
If RED RUST appears, the entire stools affected should be cut out and burned.

**EXPLANATION.**—Whenever an asterisk (\*) is used it cautions against spraying with poisons while the plants are in blossom; a dagger (†) indicates that there is danger of making an application within three weeks of the time the fruit is to be used as food. While the number of applications recommended will be found desirable, in seasons when the fungi are less troublesome a smaller number may often suffice.



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**CODLING MOTH**

and all leaf eating  
insects, spray with

**Swift's**  
**Arsenate of Lead**

It will not burn.  
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Brass pump with bronze ball valves, 1 gal. copper  
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Is the subject at issue and no  
wide awake farmer will doubt  
which is more desirable.

**The Spramotor**  
absolutely insures you 80% of an  
increase in the crop from your  
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times over which is better than costing you  
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Write for Booklet (A). Full particulars free.

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used, saves half the mixture. Brass  
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may also be used for applying whitewash and cold water  
poultices, spreading disinfectants, cleaning wagons, curing  
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**Millions of Bushels**  
of apples, pears, peaches and plums in 1904 rendered  
unsalable by rot, fungus, and worms. Could have  
been marketed **EXCELSIOR SPRAYERS.**  
If sprayed with **EXCELSIOR**, Original Maker,  
write for money-saving catalogue.

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and other INSECTS killed by  
**GOOD'S**  
**Castile Potash Whale-Oil Soap No. 3**

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stations. This soap is a fertilizer as well as an insecti-  
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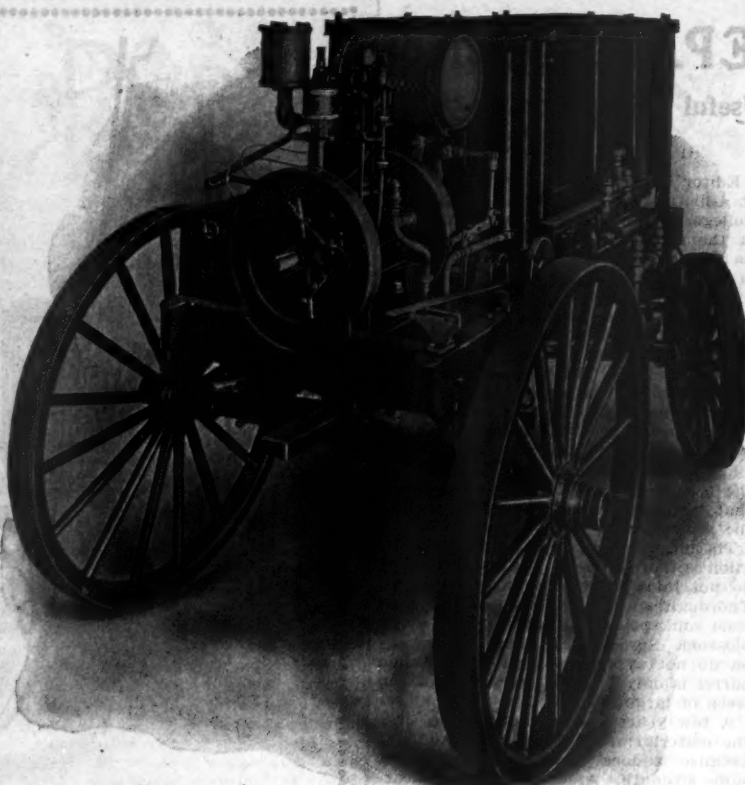
**SAVE TREES BEFORE DISEASED**  
by spraying and thus add to your profits. Use **THE PER-  
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horse power. Catalogue FREE.

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It takes very little—spray with water  
to spray very fast, impossible to stop spray  
to fill a net, compressed air device. Com-  
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grip, 2 ft. hose with brass, automatic faucet  
and handle. Send for free catalog of full line  
of sprayers. Agents wanted. Send \$1 for manual.

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**SPRAYING DEVICES.**

Steam or gasoline motor sprayers are now used by those who have orchards of considerable size or by those who make a business of spraying not only their own orchard but neighboring orchards. There are men in many localities who are looking for profitable employment, who could not do better than to purchase a steam or gasoline motor sprayer, something like that shown in the above cut, and take contracts for spraying various orchards in their locality. It would be a desirable enterprise, not only for the owner of the spray outfit, but for the orchardists, who should be glad to be able to secure the services of a man skilled in the work, and well equipped with a modern machine. The spraying of even a large orchard is not a serious undertaking if you have the best machinery and have experience. Here is where the desirable feature comes in, of having in the neighborhood an experienced man with a modern machine, who can do the work of spraying skillfully and inexpensively. Here is certainly an opportunity for the owner of a machine to make good profits and still be able to serve his neighbor to better advantage than his neighbor can serve himself, through lack of experience and lack of the necessary equipments.

der glass. It was proved that where the bees could not reach the blossoms the fruit all fell off, but where they did their work on the blossoms the fruit was abundant. Green's Fruit Grower has long been a friend of bees, and has held that fruit growers should be bee-keepers. We believe that bee-keepers do much to assist fruit growers in producing large crops of fine fruit. We have seen strawberry beds, raspberry and blackberry plantations, orchards of plums, quinces, cherry and apple when in blossom covered with countless thousands of bees, and believe that the bees are God's agent in making the trees and plants fruitful. Do not spray fruit trees when in bloom for if you do you will kill many honey bees.

Spraying Orchards.—Mr. W. S. Perrine gave some of the observations he had made during experiments conducted in 1904 in regard to spraying, and stated as a conclusion that we are coming to use less spray by applying it under high pressure, and to use weaker solutions, but applied more frequently and more promptly. The first three or four sprays should be applied in more rapid succession, when the season is wet reports County Gentleman.

Mr. Stanton—How far apart did you spray those three times, and what did you use to spray with?

Mr. Perrine—The first spray was applied just before the bloom, then the second spray on our summer apples was applied just as the petals were falling, but on the Ben Davis we did not apply it until about a week after that time, and the scab had got a very strong foothold in spite of our first spray. The third spray was applied the last of June, and it showed remarkable results in holding the foliage late in the fall. The third spray was a solution of three pounds of sulphate to four or five pounds of lime and four pounds of Paris green, to 50 gallons of water. We use quite an excess of lime in making all our Bordeaux mixture.

Mr. Goodrich—If the season was wet, could we increase the strength of the dose of Paris green, make it more pounds per gallon, with these other ingredients?

Mr. Perrine—I think you could make it weaker if the season was dry. Of course the wetter it is, the more liable you are to spray injury. The rain seems to wash the lime out of the Bordeaux and causes spray injury; so I think the thing to do is to use, not a stronger spray, but mix it the very best we know how, and use an excess of lime, and then if the season is very dry and little liability of scab, use a weaker solution.

Mr. Soverhill—We sprayed this year

some McIntosh Red about four days before they were out in bloom, and the results were astonishing. In previous years many of them had been so scabby that we could not use them, and they dropped off badly, but this year very few dropped, there was scarcely any scab, and most of them were perfect apples.

Senator Dunlap—The first spray should be applied before any bloom comes out at all, and that is one of the most important sprays.

Mr. Reasoner—I believe that the washing off of the spray in wet weather is often due to the manner in which the lime is slaked. If we slake it entirely under water, not allow air to reach it, at all, it slakes thoroughly, keeps the heat in, and then when it is applied, it is so fine that it is there to stay, and it is very difficult to wash it off.

Every man who has a garden should be prepared to use the spraying pump and the Bordeaux mixture on it, says American Cultivator. Nearly all the fungous diseases yield to this treatment. Rust or spot on beans or celery, on the blackberry or raspberry bushes, or the strawberry vines, rot of grape and cherry, and many other troubles which annoy the amateur gardener and detract from the profit of the market gardener, will be prevented or checked by a spraying done in season, and if insect pests abound, it is easy to add the arsenical poisons to it to destroy most of them, or if they are sucking insects, like the aphid or plant lice, an emulsion of kerosene, or even a mixture of it, when the pump is so made as to keep it thoroughly mixed, will kill them. To neglect spraying an orchard, small fruits, field or gardens now seems almost as bad as to neglect killing weeds, and the spraying pump should be a part of the equipment of every farm, or even the village lot, as much as the hoe or scythe, and if there are poultry on the place it will be needed in the poultry house more than once in the season.

"Spraying" was treated by Senator H. M. Dunlap, who cautioned especially against spraying apple trees when in full bloom, on account of the poison destroying the function of the stigma through which the blossom is fertilized says Country Gentleman. In the discussion which followed, it was thought best to use an excess of lime with the Bordeaux mixture, to prevent scorching the foliage. The lime, it was stated, does not reduce the efficiency of the spray, and in many cases the foliage has been saved by its use. Replying to a question in regard to the machinery used in spraying, Senator Dunlap stated that in a 20-acre orchard a hand pump could possibly be used to the best advantage,



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Sprayer**

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Catalogue of Pumps and  
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**The Northern Sprayer Co.,**  
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**The Perfection Sprayer**

combines hand and horse power, and has both cart and barrel.  
It's simple, reliable, practical and durable. Sprays everything,  
trees, potatoes, vines. Catalogue, telling how to spray and  
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Mixes instantly with water and stays mixed. No boiling. No  
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PRUNING SHEAR**



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both sides of  
limb and does  
not bruise  
the bark.  
We pay Ex-  
press charges  
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Write for  
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**50,000 PINEAPPLE STRAWBERRY** Something out of  
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profitable. Fine catalog. W. N. Searle, New Canaan, Conn.

**THE PINEAPPLE FLAVORED  
STRAWBERRY.**

What variety of strawberry would you  
advise me to plant in my home garden?  
Plant the Pineapple Flavored Straw-  
berry.

Why shall I plant that variety?  
For the reason that it is of superior  
quality. But this is not the only rea-  
son. It is of vigorous growth, very  
productive of large, handsome, well-  
formed strawberries. It is perfect in  
blossom and will bear abundantly when  
planted alone.



We call it the Pineapple Flavored  
Strawberry because we have no better  
name for it. While it is a new variety  
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testing it for ten years past.

It is a valuable strawberry for nearby  
markets and has sold for nearly double  
the price of ordinary sour berries.

Write us stating how many plants  
you want of this valuable strawberry.  
We will make you a special low price  
in lots of 500 or 1,000 plants or more.

We have thought so highly of this  
Pineapple Flavored Strawberry that we  
have planted it largely, almost to the  
exclusion of many other varieties, hence  
we can make you a low price if you in-  
tend to plant largely.

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powerful, auto-  
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prayer  
with cart and barrel.  
Sprays everything,  
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No boiling. No  
in this city. A  
Spray with the  
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ANY.  
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Cuts from  
both sides of  
limb and does  
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We pay Ex-  
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Write for  
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Something out of  
ordinary. Very  
New Carriage,  
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but it is hard to get a pressure of over 50 pounds. By using the sprocket wheel and chain attached to the wagon, a pressure of 80 to 120 pounds can be produced, which will throw a much finer mist and do the work with less material. With one machine of this kind, equipped with four nozzles and two lines of hose, an orchard of 60 to 100 acres can be sprayed in one day, with the assistance of two men and one boy.

#### SYMPOSIUM ON SPRAYING

Sylvester Johnson—I am a firm believer in spraying. I think it is absolutely necessary. It took a long while to get people to believe that there was anything in it. They thought it was simply a fad, of which we have so many; but there are now very few fruit growers but believe in spraying.

Mr. Lafuse—What kind of poison was used in this spraying material?

Mr. Williams—Bordeaux mixture, with Paris green. We used four ounces of Paris green to 50 gallons of water.

Mr. Wheeler—I have been raising little, scrawny, knotty, worm-eaten apples. I bought a hand spray pump and tried that, and met with poor success, but I had a friend that had a big pump that was put on a wagon, and he had been meeting with success. I bought one of that kind. We have sprayed for five years, and in that five years we have also had apples. Our neighbors have not been spraying, and they have not had apples, except of the kind I raised before I got my sprayer. Last year two of my neighbors, who live very close to me, asked to use my spray pump, and I told them they might. When I had finished spraying, they would come and get my pump and wagon and spray theirs, and the result was that each one of them raised good apples. If all the people in the neighborhood would spray, I think we could exterminate these little pests a great deal better than by one spraying by himself.

Secretary Flick—I had the pleasure of visiting Mr. Williams' orchard in October. I must say that I have not seen as much marketable fruit in any one orchard I have visited for years. I have never seen as good color, or any smoother or larger fruit anywhere. Mr. Williams' fifteen-acre orchard is on the ridge which slopes in all directions—north, south, east and west. The trees were planted in about the usual way, but they were obtained from one of our best nurseries in the state, and of course they all proved true to name. This orchard required clean cultivation until the bearing age, and then it was sown down with clover, and it is still in clover. Mr. W. keeps it in clover. He told me that in the spring, when the ground is moist and mellow, he goes over it and sows the seed in the places where it is needed, and it then has a good set in clover.

President Stevens—Does he do that every year, or every other year?

Mr. Williams—Every other year.

Mr. Flick—Whenever it begins to show that it is about to play out, he cuts the clover and weeds and other things that may come up in June, and leaves it on the ground as a mulch. The clover keeps the ground in fine condition to support and feed the trees, so that they are able to bear a fine crop. The clover will do that. He pastures his orchard with pigs frequently to pick up the fruit that is down. This accomplishes a result somewhat similar to spraying, as the pigs eat the wormy fruit up and destroy the codling moth.

Mr. Evans—What do we spray for? I spray to kill the curculio, but my spraying seems to be unsuccessful. When I didn't spray, I had just as good apples as when I did. I spray just after the bloom falls. I do not spray when the trees are in blossom, for if I did I would kill all of my neighbors' bees. The curculio bites the fruit, does not sting it. It then lays an egg in the apple, and the apple hatches the worm, and the worm works into the apple and destroys it and it drops off. This is more especially true with the plum. I spray just the minute the blooms are off the tree. I like to spray the first week, for if I wait until the second week, I am unsuccessful. The curculio makes the apple wormy. I had a few Yellow Transparents of this kind; but not many.

Mr. Williams—I spray to kill the codling moth, and I spray with Paris green. The codling moth lays an egg, but when it gets a dose of Paris green it dies.

President Stevens—When do you spray for the codling moth?

Mr. Williams—Immediately after the bloom falls.

President Stevens—And then in ten days after that spray again?

Mr. Williams—Yes, in ten or fifteen days.

The Scientific American tells of a new remedy for treating San Jose scale,

which is to spray the trees with crude petroleum. After the oil spray has been upon the trees ten to fifteen minutes the trees are again sprayed with caustic alkali solution, which neutralizes the oil, transforming it into a soapy substance. It is claimed that the oil destroys insects in a few minutes, and that the subsequent spray of caustic alkali solution destroys the injurious effects of the oil upon the trees and foliage. The writer would doubt the expediency of applying any kind of oil to the foliage of a tree, but would not hesitate to apply after the foliage has fallen; but would recommend great care in so doing and would prefer testing it on a small scale.

#### MAKING DRY BORDEAUX MIXTURE

At one of the sessions of the meeting Prof. Bird, acting chemist of the experiment station, gave a practical demonstration of his plan of making "dry Bordeaux mixture," which is used in the dust process of spraying, which has been developed in Missouri. Prof. Bird said that the ordinary process of slaking lime with a copper sulphate solution does not produce a fungicide which is effective. His method of producing this fungicide is as follows:

Break up into small lumps seventy or eighty pounds of quick lime and spread it out so that it will become air-slaked. When slaked and perfectly dry sift it through a sieve with 100 meshes to the inch. Dissolve four pounds of copper sulphate in two and a half gallons of water—this makes a strong copper sulphate solution. Pour gradually two and a half gallons of water over four pounds of good quick lime in such a manner as to slake it to the finest powder; and give a good milk of lime solution; let this cool. Put sixty pounds of the sifted air-slaked lime into a shallow box—one in which the material can be well worked with a hoe or shovel. Pour the well stirred milk of lime and the copper sulphate solution at the same time into a third vessel, one person pouring one of the mixtures and another the other, so that they shall become mixed as the two are poured together into the third vessel; stir until the whole is well mixed. This will produce a thick mixture of a deep blue color. Pour this immediately into a double flour sack (one inside the other), which will act as a filter; squeeze out most of the water. This wet, blue material should not be allowed to dry as the copper will crystallize, but stir it and add the sixty pounds of air-slaked lime which will absorb the moisture. Pulverize the whole mass carefully.

#### VALUABLE FORMULAS FOR SPRAYS

For Rots, Mildew and all Fungous Diseases on Tree, Etc.—Bordeaux mixture: Copper sulphate 4 pounds, quicklime 4 pounds, water 50 gallons. Dissolve the copper sulphate by putting it in a bag of coarse cloth and hanging this in a vessel holding at least 4 gallons, so that it is just covered by water. Use an earthen or wooden vessel. Slake the lime in an equal amount of water. Then mix the two and add enough water to make 50 gallons. It is then ready for immediate use.

For All Soft Body or Sucking Insects, Cabbage Worms, Etc.—Kerosene emulsion—Hard soap 1-2 ounce, boiling water 1 gallon, kerosene 2 gallons. Dissolve the soap in water, add the kerosene, and churn with a pump for 5-10 minutes. Dilute 10 times before applying.

For San Jose Scale—Stone lime 50 pounds, flowers of sulphur 50 pounds, stock salt 50 pounds, water 150 gallons. The time of application should be late winter or early spring, before the trees have made a start.

See Whale Oil Soap, it is better for home use.

For Insects that Chew, Potato Bugs, Etc.—Paris Green (Arsenites).—Paris green 1 pound, water 250 gallons. If this mixture is to be used upon peach trees, one pound quicklime should be added. Repeated applications will injure most foliage, unless lime is added. Paris green and Bordeaux can be applied together with perfect safety. The action of neither is weakened, and the Paris green loses all caustic properties.

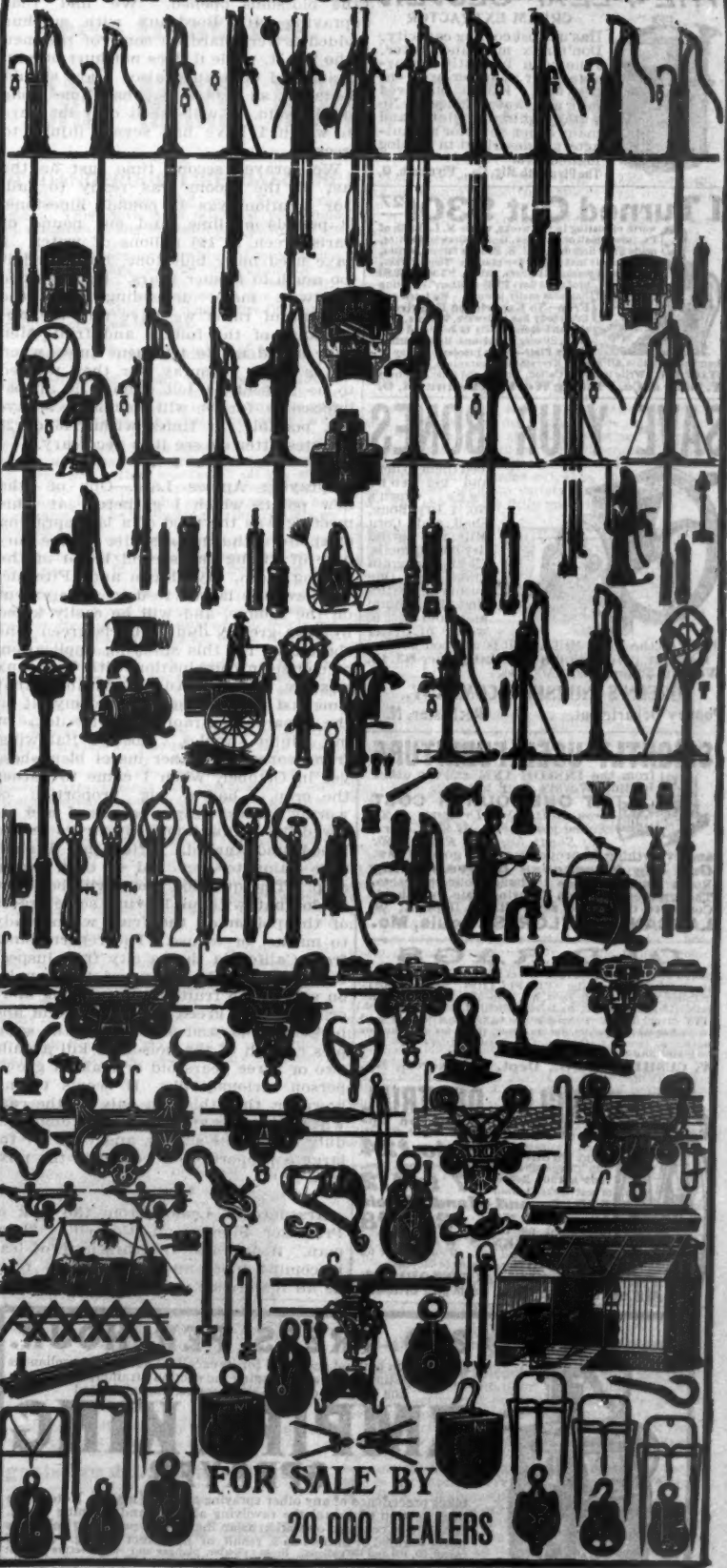
For Disinfecting Stables, Cattle Cars, Cellars, Etc.—In proportion of unslaked lime 1 pound, best carbolic acid, or Pearson-Creolin, or Creol oil, 1 ounce. Pour the acid on the unslaked lime, then slake as for whitewash and spray thoroughly sides, floors, etc.

Whale Oil Soap for Scale, Cabbage Worms.—Reduce with soft water for scale, make thick paint and apply to trees with brush in winter. For spray add 5 to 8 gallons soft water to 1 lb. Whale Oil Soap. Costs 15c lb., 2 lbs. 25c.

Use Sulpho-Tobacco Soap for rose bushes. It is also a valuable fertilizer for all house plants. Three oz. cake, makes



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**Warranted to Give Satisfaction.**

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**Has Imitators But No Competitors.**  
A Safe, Speedy and Positive Cure for  
Cuts, Sprains, Swellings, Capped Hocks,  
Strained Tendons, Founder, Wind,  
Puffs, and all lameness from Sprains,  
Blisters and other bony tumors.  
Cures all skin diseases or Parasites.  
Thrush, Diphtheria. Removes all  
Scabs from Horses or Cattle.


As a Human Remedy for Rheumatism,  
Sprains, Sore Throat, etc., it is invaluable.  
Every bottle of Caustic Balsam sold is  
warranted to give satisfaction. Price \$1.00  
per bottle. Sold by druggists, or sent by ex-  
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its use. Send for descriptive circulars,  
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The Lawrence-Williams Co., Cleveland, O.

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Has utmost cooling capacity.  
Don't mix milk and water.  
Inner can instantly remov-  
able. Air chamber over en-  
tire can. Patent improved  
milk and water faucets. No  
water required in winter, and  
many other superior advan-  
tages all described in catalog  
mailed free.  
The Plymouth Mfg. Co., Plymouth, O.

### I Turned Out \$301<sup>27</sup>



worth of plating in two weeks, writes M. L. Smith of  
Pa. (used small outfit). Rev. Geo. F. Crawford writes,  
made \$7.50 first day. J. J. S. Mills, a farmer, writes,  
one easily make \$5.00 day plating. These figures  
show teacher 21 years, writes, "I made \$0.50  
profit one day, \$0.50 another. Plating  
business easily learned. We teach you  
Free—No Experience Required.  
Everybody has tableware, watches, jewelry  
and metal goods to be plated with  
Gold, Silver, Nickel and Metal plating.  
Heavy Plate—latest process. No toy or  
bummer. Outside all sizes. Everything guaranteed. LET US  
START YOU. Write today for Catalog, Agency and Offer. Address  
F. Gray & Co. Plating Works, Cincinnati, O.

## SAVE YOUR BONES



feed them to hens  
and get more  
eggs. Green's  
No. 1 Dry Bone,  
Shell and Corn  
Mill will grind  
dry bones, shells,  
all kinds of grain  
gravel, etc. One  
customer writes  
that he ground  
and sold \$100.00  
worth of oyster  
shells on the No. 1 Mill and it is as good as new.  
Regular price, \$5.00. Special price, \$3.45.  
Weight, 35 pounds. Address,  
**GREEN'S NURSERY COMPANY,**  
Poultry Department, Rochester, N. Y.

### SLIGHTLY USED FURNITURE

from the INSIDE INN and ten other  
leading World's Fair hotels.  
**AT ONE-FOURTH COST**  
Iron Beds, \$20; Dressers, \$2.50;  
Extension Tables, \$3.50; Chairs,  
25c; Seats, 10c; 9x12 Rugs, \$5.00;  
and everything in proportion. All good as new.  
Our Big Warehouse is overflowing  
Rooms must be made to handle our contracts.  
The greatest Bargain Clearing Sale ever held.  
Complete Catalogue sent FREE. Dept. A, W.  
**LARCAN & TAYLOR, St. Louis, Mo.**

### OLD RAGS

colored with "PERFECTION" Dyes make artistic and beautiful  
rugs and carpets. The "PERFECTION" are the FAST-  
EST dyes made against light, air, soap and acids. They are  
cheap, safe, easy to use, and color DOUBLE THE QUAN-  
TITY of old kinds. To enable you to try them we will send  
six packages, any colors, for 25 cents, three for 50 cents, or  
one for 10 cents. Catalogue of 70 popular colors, with Dy-  
ing Book and Shade Cards sent free.  
**W. CUSHING & CO., Dept. 8, Foxcroft, Me.**

### BICYCLES ON TRIAL

for 10 days. We ship on ap-  
proval to anyone without a cent deposit.  
Finest guaranteed 1906 Models  
with Cassette Brakes and Puncture-Proof Tires.  
1905 & 1904 Models  
of best makes..... \$7 to \$12  
500 Second-Hand Wheels  
All makes & Mod-  
els good as new  
RIDERS AGENTS WANTED  
in each town at good pay. Write at once for  
Special Offer on sample bicycle.  
**TIRE, SUNDRIES, AUTOMOBILES,  
HEAD OYLE CO., Dept. A-1, CHICAGO**

## 200 TREES PER HOUR.

For work on a grand scale and for its excellent automatic appliances  
for agitating liquid and cleaning the suction strainer, prevent-  
ing clogging of pump and nozzles, the celebrated

# EMPIRE KING SPRAYER



takes precedence of any other spraying machine made. Note in the  
open section of barrel the revolving agitator and cleaning brush.  
Both are in constant operation as an incident of pumping. Foliage is  
never scalded or burned as a result of imperfect mixing. Size of  
barrel, 60, 100 and 150 gallons. Brass cylinder, plunger and valves secure perfect  
through, long life, and freedom from corrosion. Every consideration urged (as the  
pump for large sprayers). We also manufacture the Monarch, Garfield, Knapp-  
sack and many other kinds and sizes of sprayers. Write for our excellent book on  
spraying, sprayers, old and new spraying formulas, etc. Mailed free.  
**Field Force Pump Co., 226 Eleventh St., Elmira, N. Y.**

2 gallons of spray, postpaid, costs 13c; 8 oz cake, makes 5 gallons of spray, postpaid, costs 28c.

U. S. Standard Bordeaux Mixture in Condensed Form—One gallon, makes 50 gallons of spray, costs \$1.00; 5 gallons, makes 250 gallons of spray, costs \$4.50.

#### SPRAYING METHODS

In experimenting with the mixing of lime and sulphur we found that we got a little better combination of the two by putting a barrel of lime in the slaking box, adding enough water to slake, and just as the bubbling ceased and the heat was greatest, we added a half bushel of the flour of sulphur after rubbing it through a sieve, says report Missouri State Society. It is easier to mix while the solution is yet thick. After mixing thoroughly we put in water enough to make in all 160 gallons, then put it into the spray tank and applied to the trees with the pump, the gage showing a pressure of 40 to 60 pounds. We use the "Boss" nozzle, and for this purpose use the round orifice. Sometimes I added 25 or 30 pounds of salt to this mixture, and again I did not, for I felt like it was useless.

This is the only year in which I have used the sulphur and lime combination, in place of lime alone, in making Bordeaux mixture, and used it for the first spraying only, which was just before the blossoms opened. We find that spraying with Bordeaux with sulphur added is very hard on some of the men who use it, while it does not hurt others. It is hard on teams, also. Care should be taken, as it is worse than lime alone on the skin. I will use it only in years in which I have had severe injury to trees.

We sprayed second time just as the last of the bloom was ready to fall. Our solution was 12 pounds bluestone, 18 pounds of lime, and one pound of Paris green to 160 gallons of water. I have used more bluestone, but found it too much in former years. I spray once or twice more, depending upon the amount of rains we have and the appearance of the foliage and fruit. Men have asked me to let them know when I was going to spray, for they wanted to be present. I tell them it is almost impossible, for we will commence spraying, possibly, at times within 15 or 25 minutes after we see it is necessary.

**Spraying Apples Late.**—One of the new points which I gathered at this meeting was the need of a late spraying of apples with some arsenite for the purpose of killing the second brood of the codling moth, says Farm and Fireside. I believe the larvae feed to some extent on the foliage, and will be easily killed by even greatly diluted Paris green. The right time for this spraying application, of course in combination with Bordeaux mixture, is during August. At about that time last year I congratulated myself on the apparent extraordinary freedom of my winter apples, mostly Baldwins, from worms and other insect blemishes; yet in October, when I came to gather the crop, I had a big proportion of wormy apples, simply because I had allowed the codling-moth to rear its second brood undisturbed. After this I shall take pains to get rid of that worm crop. The question then will be how to do that without leaving some traces of the poison on the fruit when ready to market or to use. The report comes from California that a city fruit-inspector there found many of the apples on sale in the fruit stores carrying more or less Paris green about the stem and blossom ends, and on some of the samples enough of the poison to kill a child two or three years old or make a grown person seriously ill. It seems to me, however, that this can only be the case where the spraying has been done unduly late in the season, and with far too large a proportion of poison in the mixture.

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**Arsenate of Lead.**—From the talk of Professor Slingerland, Cornell's "bug-man," it appears that arsenate of lead is coming more and more to the front as an insecticide, says "Farm and Fire-

side." Paris green has been tried for the plum-curculio for years, usually with very indifferent results. Now arsenate of lead, at the rate of four pounds to fifty gallons of water, it found quite effective against both the quince and the plum curculios. Some headway has even been made against such a bad customer as the rose-chaffer, but the proportions found necessary in this case were five pounds to fifty gallons of water. For the grapeberry-worm, Professor Slingerland recommended early spraying with arsenate of lead, at the rate given for curculio. A reader has just asked me in what strength I have used arsenate of lead for the yellow-striped cucumber-beetle. From one to two pounds to fifty gallons of Bordeaux mixture. I believe, has been my usual application, being frequently repeated. This coming season I propose to make it much stronger. I have never seen any plant injured by it, no matter how strong the dose was made, and I believe that four pounds of the arsenate to fifty gallons of Bordeaux mixture will not harm the vines, but kill every beetle.

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**Spraying Trees.**—A reader of Farm and Fireside asks about spraying an orchard of seventy-five trees, nearly half of them apple, the remainder pear, plum, cherry and peach. He has no experience in this field, but falls to state for what purpose he wishes to spray. If for the San Jose scale, then I would advise him to buy a barrel of crude petroleum of not less than forty-three-degree test, and with a good barrel sprayer (hand-power) apply this oil in a very fine spray all over the trees at the time when the buds are just beginning to break, spraying from the windy side, preferably when the wind is blowing briskly, and again soon after, and when the wind has shifted to the opposite direction. This will clear out the scale, and possibly some insect enemies. For scab, however, as well as for the codling worm and other insects, we must follow this up with several applications, at proper intervals, of Bordeaux mixture to which some arsenical poison is added. More difficult is the prevention of fruit-rot in cherries, plums and peaches. It can be accomplished to a certain extent by means of spraying every few days during the ripening stages of these fruits with a very weak simple solution of copper sulphate, say one fourth of a pound to 100 gallons of water.

#### Professor S. A. Beach.



Professor Beach who has done thorough work as horticulturist at the New York Experiment Station at Geneva has recently been elected Professor of Horticulture in the Iowa State College. Professor Beach is a New York man and a former graduate of the Iowa State College. Before entering that college he had secured practical information as a horticulturist by working in a nursery, thus familiarizing himself with trees.

Professor Beach has, by his modesty, and by his thorough work, endeared himself to the fruit growers of New York State. No horticulturist has ever done better work here. His work has been thoroughly appreciated. He is now engaged in writing an exhaustive report on Pomology, for which the state of New York has made a special appropriation of \$20,000. Professor Beach has our best wishes for his coming work for Iowa. We congratulate our Iowa friends in having such a capable and efficient man in their service.

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If we look down, then our shoulders stoop. If our thoughts look down, then our character bends. It is only when we hold our heads up that our body becomes erect. It is only when our thoughts go up that our life becomes erect.—A. McKensie.

## VAN DEMAN PAPERS

#### ADVICE TO FRUIT PLANTERS. PREPARING THE GROUND.

The first thing to do when tree planting time comes in the spring is to make all haste to get the ground in order. Early planting is better for almost everything in the way. It is a great mistake to dig holes for trees in hard ground, with the intention of afterwards plowing it; for there is much less opportunity to do it, even provided, the intentions are carried out. It may not be possible to take time to plow the entire surface of the ground to be planted to orchard before the planting is done, but strips where the rows are to be should be plowed. My plan is to first mark the ends of all the rows with stakes and then use at least one pole at each end to guide the plowman in laying them off straight. I start on either side of the row far enough to allow the plow to make three rounds before coming to the center, where the dead furrow will be, and this should be made as deep as possible. This plowing out the tree rows adds greatly in the digging of holes in which to plant the trees. After the trees are planted the furrows should all be thrown back towards the trees and the rest of the ground plowed. Sometimes trees are foolishly set in fields that have been seeded to small grain, which is very injurious to them. They need to have some crop grown on the ground they partially occupy that will require the best of tillage.

#### BUY DIRECT IF POSSIBLE.

It is an excellent plan to get trees or any other kind of nursery stock directly from the nursery. Agents are sometimes honest and trustworthy and often they are not. I have often gone with my wagon to the nursery and seen the trees dug and packed ready for taking home. In such cases I was very sure they were all right and scarcely ever lost one in resetting them. But there are few who live near enough the nurseries to do this way. The next best plan is to get them by direct shipment.

#### IN CASE OF FREEZING.

When trees or plants of any kind are received from a nursery there should be no trifling with them. It may have been cold weather while they were in transit or it may be so at the time of their receipt. If so, the greatest care must be used in handling them. If it is certain or even probable that the contents of the box or bale has been or is frozen it should be buried bodily in moist earth and allowed to remain until completely thawed. If haste is necessary, in order to get things planted very soon the whole box or package may be put in a pond of water, or the trees taken out and submerged until the frost is completely out of them, which will not be longer than a few hours in water. In the earth it may require several days, especially if the box is large. When the thawing is done slowly and without contact with the open air the freezing has almost no harmful results, but otherwise, the damage may amount to utter loss.

#### HEELING IN.

In any case there should be no more delay than is absolutely necessary to get everything planted, but heeling in is usually a necessity, unless there is so little that it can be planted out within a few hours. Do not risk leaving things out of the ground over night. It might turn cold suddenly and freeze the roots, even if they are well covered with moss and straw. Put them in the ground; that is, heel them in at once. Dig a trench large enough to admit of burying the roots well under the ground. Do this before unpacking the trees. Place the bundles with their roots in the trench and cover them with mellow earth, filling it well in among them. Then all will be safe against sudden changes and drying out.

#### PRUNING ROOTS AND TOPS.

It is easy enough to plant trees well, but many will not do as well as they know, and there are some who do not fully understand how to plant. Every reasonable person knows that the roots of whatever is to be planted would be put in the ground in as nearly a natural condition as possible. Some claim that it is best to cut them back to mere stubs, and this plan works well in some soils and climates, especially in the South, but generally it does not work well. Moderate pruning of the roots is what I have found to give the best results. The tops of most fruit trees and plants should be cut back considerably, and peach, plum and cherry trees are better if



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trained to mere straight sticks about two feet high. This can be done before planting, and with pruning shears, but I generally do it with my knife just after each tree is set. It should never be deferred later than that time; for it is important to reduce the surface as much as need be, to lessen evaporation, and give proper direction to the top that is to be formed. I always try to train to a central stem, with lateral branches coming out from it. This ideal cannot often be attained, but I always have it in mind when I am pruning young trees. I also cut back the tops of berry bushes and grape vines very severely at planting time. They will grow off much better for it.

#### PUDDLING.

Never neglect to puddle the roots before planting if possible. I do this with everything I plant, and have always found that it paid. It is simple and easy to do. A hole is dug near where the tree are heeled in and large enough to take in the roots of several at once. Two feet wide and a foot deep is about right. If the ground is not naturally sticky then clay should be got and put in the hole, to which water is added and stirred into thin mud. It should be just thick enough to coat the roots when dipped into it. It is better to dip a few at a time, as the planting progresses, than a large lot at once; for there is less time in which it may dry before planting. This gives little chance for the roots to become dry while being carried to where they are to be set, and when the soil is put next to them, although it may be very dry, it will stick closely to them.

#### PACK THE SOIL WHEN PLANTING.

It is a matter of much importance to pack the soil firmly about the roots when planting. In planting trees after the roots have been placed and a little earth filled in it should be tramped hard; and then more filled in, the upper roots placed and more tramping done. In this way the hole should be packed with mellow earth to a little above the level of the soil.

With strawberry and other small plants the same principle should be applied but in a somewhat different manner. A dibble or spade is thrust in the ground, the roots dropped into the hole thus made and the same tool thrust into the soil near enough to press it firmly against the roots.

H. E. Randeman.

**Grafting Wax.**—My recipe for grafting wax is as follows: One pound beeswax, 1 pound raw linseed oil, 6 pounds resin. Melt together and work the same in the usual manner being careful since if this mixture is overturned on the hot stove it may burn up the house. By using a little more oil the wax is softer and can be used earlier in the season. There is no danger of its running in hot weather as it forms a tough skin or coating on the outside within twenty-four hours. I was formerly a Rochester man but am now living in Michigan. I like Green's Fruit Grower very much and my son is also a subscriber for it.—A. S. Bacon, Mich.

#### A Book on Poultry Keeping.

Have you read Green's American Poultry Keeping? A booklet in stiff paper covers published by Chas. A. Green, Rochester, N. Y. This is the season when you will need such a book, therefore allow us to call your attention to it. It gives 999 suggestions to poultry keepers. It is illustrated and treats of hatching, of various diseases, of feeding, of the different breeds, tells you how to construct poultry houses, tells about the incubators, about turkey raising, how to keep eggs, etc., etc. Price 25 cents. This booklet is mailed free as a premium to all who send 50 cents for Green's Fruit Grower 1 year who claim this premium when sending their money.

The blackberry continues to bear a long time in the same plantation. I have known blackberry patches to remain productive for 10, 15 and 20 years, but now I hear of one in Ohio that has borne well for 25 years. The variety was Snyder which is one of the hardiest of all blackberries. The blackberry is a valuable fruit, highly prized by the housewife for making pies, jams and for eating with cream and sugar the same as strawberries. Where the blackberry grows wild in its perfection the ground is mulched each year with an abundance of leaves. In a small clearing at the side of timber land, therefore if you have a garden patch and desire a abundance of fine fruit mulch the plants heavily with strawy manure, leaves or other litter.

Look not mournfully into the past. It comes not back again. Wisely improve the present. It is thine. Go forth to meet the shadowy future without fear and with a manly heart.—Longfellow.

# OIL-GAS THE WONDERFUL NEW FUEL

Ohioan's Remarkable Invention — Claimed to be the cheapest, safest, and best yet found. Invents a new Oil-Gas Stove that burns about 90% air, 10% oil-gas. A Miniature Gas Works in the Home.

A Godsend to Women Folks—Every family can now have gas for cooking made from Kerosene Oil at a cost of only about ONE-HALF CENT PER HOUR.

How delighted the ladies will be to save one-third to one-half on fuel bills—all the drudgery of carrying coal, wood, ashes, dirt, etc., and be able to enjoy cool kitchens this summer.

Most Wonderful Stove Ever Invented—Nothing else like it—Entirely different from the kind seen in stores.

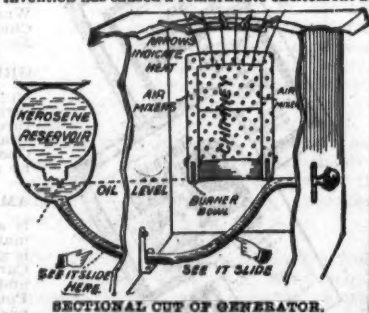
## HOW OUR READERS CAN MAKE MONEY THIS SUMMER.

A genius of Cincinnati has invented a new, scientific oil-gas generator, that is proving a blessing to women folks, enabling them to cook with gas—relieving them of drudgery. Makes cooking and housework a delight and at the same time often saves  $\frac{1}{2}$  to  $\frac{3}{4}$  in cost of fuel.

How often have many of our lady readers remarked that they would give anything to get rid of the drudgery of using the dirty coal and wood stoves—also the smoky oil wick stoves and their gasoline stoves which are so dangerous and liable to cause explosions or fire at any time. Well, that day has arrived and a fine substitute has been discovered and every family can now have gas fuel for cooking, baking and heating and not have their kitchens a hot, fiery furnace in summer, and be carrying coal and ashes—ruining their looks and health.

#### Thousands a Week.

Upon calling at the factory we found that this invention has caused a remarkable excitement all



SECTIONAL CUT OF GENERATOR.

over the U. S.—that the factory is already rushed with thousands of orders and evidently the Company's representatives and agents are making big profits as they offer splendid inducements.

As will be noticed from the engraving, this OIL-GAS GENERATOR is entirely different from any other stove—although its construction is very simple—may be easily and safely operated and is built on the latest scientific principles, having no valves, which is a marked improvement, as all valves are liable to leak, carbonize, clog up or overflow.

By simply moving a knob the oil is automatically fed to a small, steel burner bowl or retort where it is instantly changed into gas, which is drawn upwards between two red hot perforated steel chimneys, thoroughly mixed with air and consumed, giving a bright blue flame—hottest gas fire, similar in color and heating power to natural gas.

This invention has been fully protected in the U. S. Patent Office and is known as the HARRISON VALVELESS, WICKLESS, AUTOMATIC OIL-GAS GENERATOR—the only one yet discovered that consumes the carbon and by-products of the oil.

The extremely small amount of Kerosene Oil that is needed to produce so large a volume of gas makes it one of the most economical fuels on earth and the reason for the great success of this Generator is based on the well-known fact of the enormous expansiveness of oil-gas when mixed with oxygen or common air.

Oil-Gas is proving so cheap that 15c to 30c a week should furnish fuel gas for cooking for a small family.

Kerosene oil from which oil-gas is made may be purchased in every grocery—L. cheap, and a gallon of it will furnish a hot, blue flame gas fire in the burner for about 18 hours and as a stove is only used 3 or 4 hours a day in most families for cooking, the expense of operating would be but little.

In addition to its cheapness is added the comfort, cleanliness—absence of soot, coal, dirt, ashes, etc.

What pleasure to just turn on the oil—light the gas—a hot fire ready to cook. When through, turn it off. Just think; a little kerosene oil—one match—light—a beautiful blue gas flame—hottest fire—always ready—quick meals—a gas stove in your home.

It generates the gas only as needed—is not complicated, but simple—easily operated and another feature is its PERFECT SAFETY.

#### NOT DANGEROUS LIKE GASOLINE

And liable to explode and cause fire at any moment. This stove is so safe that you could drop a match in the oil tank and it would go out.

This Oil-Gas Stove does any kind of cooking that a coal or gas range will do—invaluable for the kitchen, laundry—summer cottage—washing—ironing—camping, etc. Splendid for canning fruit—with a portable oven placed over the burner splendid baking can be done.

#### Another Important Feature

Is the invention of a small Radiator Attachment which placed over the burner makes a desirable heating stove during the fall and winter so that the oil cook stove may be done away with entirely.

While at the factory in Cincinnati the writer was shown thousands of letters from customers who were using this wonderful oil-gas stove, showing that it is not an experiment but a positive success and giving splendid satisfaction, and as a few extracts may be interesting to our readers we reproduce them:

L. S. Norris, of Vt., writes: "The Harrison Oil-Gas Generators are wonderful savers of fuel—at least 50 per cent. to 75 per cent. over wood and coal."

Mr. H. Howe, of N. Y., writes: "I find the Harrison is the first and only perfect oil-gas stove I have ever seen—so simple anyone can safely use it. It is what I have wanted for years. Certainly a blessing to human kind."

Mr. B. D. Arnold, of Neb., writes: "That he saved \$4.25 a month for fuel by using the Harrison Oil-Gas Stove. That his gas range cost him \$5.50 per month and the Harrison only \$1.25 per month."

J. A. Shafer, of Pa., writes: "The Harrison Oil-Gas Stove makes an intense heat from a small quantity of oil—entirely free from smoke or smell—great improvement over any other oil stove. Has a perfect arrangement for combustion—can scarcely be distinguished from a natural gas fire."

Mr. H. B. Thompson, of Ohio, writes: "I congratulate you on such a grand invention to aid the poor in this time of high fuel. The mechanism is so simple—easily operated—no danger. The color of the gas flame is a beautiful dark blue, and so hot, seems almost double as powerful as gasoline."

Mrs. J. L. Hamilton, writes: "Am delighted—Oil-Gas Stoves so much nicer and cheaper than others—no wood, coal, ashes, smoke, no pipe, no wick, cannot explode."

Hon. Ira Eble, J. P. of Wis., writes: "Well pleased with the Harrison—far ahead of gasoline. No smoke or dirt—no trouble. Is perfectly safe—no danger of explosion like gasoline."

Chas. L. Bendke, of N. Y., writes: "It is a pleasure to be the owner of your wonderful Oil-Gas Stove—no coal yard, plumbing—ashes or dust. One match lights the stove and in ten minutes breakfast is ready. No danger from an explosion."



—no smoke—no dirt—simply turn it off and expense ceases. For cheapness it has no equal."

Agents are doing fine—Making Big Money.

#### WONDERFUL QUICK SELLER.

Geo. Robertson, of Me., writes: "Am delighted with Oil-Gas, so are my friends—took twelve orders in three days."

A. B. Slump, of Texas, writes: "I want the agency—in a day and a half took over a dozen orders."

Edward Wilson, of Mo., writes: "The Harrison very satisfactory—sold five stoves first day I had mine."

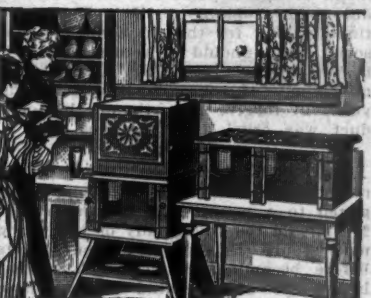
J. H. Halman, of Tenn., writes: "Already have 70 orders."

This is certainly a good chance for our readers to make money this summer.

Hundreds of other prominent people highly endorse and recommend oil-gas fuel and there certainly seems to be no doubt that it is a wonderful improvement over other stoves.

The writer personally saw these Oil-Gas Stoves in operation—in fact, uses one in his own home—is delighted with its working and after a thorough investigation can say to our readers that this Harrison Oil-Gas Stove made by the Cincinnati firm is the only perfect burner of its kind.

It is made in three sizes 1, 2 or 3 generators to a stove. They are made of steel throughout—thoroughly tested before shipping—sent out complete—ready for use as soon as received—nicely finished with nickel trimmings and as there seems to be nothing about it to wear out, they should last for years. They seem to satisfy and delight every user, and the makers fully guarantee them.



#### HOW TO GET ONE.

All our lady readers who want to enjoy the pleasure of a gas stove—the cheapest, cleanest, and safest fuel—save  $\frac{1}{2}$  to  $\frac{3}{4}$  on fuel bills and do their cooking, baking, ironing, and canning fruit at small expense should have one of these remarkable stoves.

Space prevents a more detailed description, but these oil-gas stoves will bear out the most exacting demands for durability and satisfactory properties.

If you will write to the only makers, The World Mfg. Co., 5824 World Bldg., Cincinnati, Ohio, and ask for their illustrated pamphlet describing this invention and also letters from hundreds of delighted users you will receive much valuable information.

The price of these stoves is remarkably low, only \$1.00 up. And it is indeed difficult to imagine where that amount of money could be invested in anything else that would bring such saving in fuel bills, so much good health and satisfaction to our wives.

#### DON'T FAIL TO WRITE TO-DAY

For full information regarding this splendid invention.

The World Mfg. Co. is composed of prominent business men of Cincinnati, are perfectly responsible and reliable, capital \$100,000.00, and will do just as they agree. The stoves are just as represented and fully warranted.

Don't fail to write for Catalogue.

#### \$40.00 Weekly and Expenses.

The firm offers splendid inducements to agents and an energetic man or woman having spare time can get a good position paying big wages by writing them at once and mentioning this paper. A wonderful wave of excitement has swept over the country, for where shown these Oil-Gas Stoves have caused great excitement. Oil-Gas fuel is so economical and delightful that the sales of these stoves last month were enormous and the factory is rushed with thousands of orders.

Many of our readers have spare time, or are out of employment, and others are not making a great deal of money, and we advise them to write to the firm and secure an agency for this invention. Exhibit this stove before 8 or 10 people and you excite their curiosity and should be able to sell 5 or 8 and make \$10.00 or \$15.00 a day. Why should people live in penury or suffer hardships for the want of plenty of money when an opportunity of this sort is open?



### My Wife and Child.

The tattoo beats—the lights are gone  
The camp around in slumber lies;  
The night with solemn pace moves on,  
The shadows thicken o'er the skies;  
But sleep my weary eyes hath flown,  
And sad, uneasy thoughts arise.

I think of thee, oh! dearest one,  
Whose love my early life hath blest—  
Of thee and him—our baby son—  
Who slumbers on thy gentle breast.  
God of the tender, frail and lone,  
Oh! guard the tender sleeper's nest.

And hover gently, hover near  
To her whose watchful eye is wet—  
To mother, wife—the doubly dear,  
In whose young heart have freshly met  
Two streams of love so deep and clear,  
And cheer her drooping spirits yet.

Whatever fate those forms may show,  
Loved with a passion almost wild—  
By day—by night—in joy or woe—  
By fear oppressed, or hopes beguiled,  
From every danger, every foe,  
Oh, God! protect my wife and child!  
—Stonewall Jackson.

### AUNT HANNAH'S REPLIES.

Dear Aunt Hannah.—My husband forty-five years old, recently inherited \$300,000. We have lived happily together for many years. Not long ago he suggested that I visit Boston stating that he would follow me in a few days after he finished some important business. He kissed me goodbye at the station and this is probably the last time I shall ever see him. He wrote me that he was about to leave me forever. He packed up his clothing and taking all of his property except the house in which I live, left his native town for Honolulu with a strange woman of whom I know nothing. I am the most unhappy woman on earth. Can you give me any advice?—Sad Wife.

Aunt Hannah's Reply.—It is my opinion that your husband will soon become exceedingly weary of the woman with whom he has eloped. She must be a woman without principle and such a woman can seldom hold long the affections of any man. Wherever he goes he will have the consciousness that he has shamefully abused a true and loving wife who is as far superior to this woman with whom he has eloped as the heavens are higher than the earth. I should be much surprised if your husband does not return to you and beg for forgiveness. A man may imagine that it is an easy thing to leave his home, his wife, his relatives, his companions and seek a new home in a distant country, but this in fact is banishment, or exile. But few men can endure such a change of life. They continually long for the old home and associations. Should he return to you it is for you to say whether you will forgive him. If your love is very strong you will forgive him, though his conduct was cruel and villainous.

Dear Aunt Hannah.—1. What is the most up-to-date method of becoming engaged to a young lady in marriage? 2. Should the young lady or the young man secure the consent of her parents before becoming engaged? 3. What is the most suitable kind of ring for an engagement ring, and when should it be presented to the young lady? 4. What is the most up-to-date manner of asking the young lady's parents if he may have her hand in marriage? 5. Is it necessary for the newly married couple to say anything in return when friends congratulate them?

Aunt Hannah's Reply.—One: Do not attempt to be formal in any of the usual forms of social usage. "Jennie, I love you. Will you be my wife?" This is as good form as any but there are a thousand other forms that might be adopted. 2: The young people generally manage this affair among themselves as to how to get the consent of the parents. Sometimes it is done before engagement and sometimes after. 3: Do not be too formal in asking for the hand of the young woman, simply ask in a manly way for the hand of their daughter in marriage. 4: A diamond ring is considered the proper thing for an engagement ring, but poor people cannot indulge in diamonds therefore they must be suited with anything that is neat and appropriate. The sooner it is presented to the young lady after the engagement the better. 5: When friends congratulate you after you are married you can thank them which is the usual response, but you need not confine your remarks to any particular form.

A young man says that there are two young ladies, both good looking, cultivated, refined and all that man could wish as regards principle, etc., but one is delicate and wealthy, and the other in limited circumstances, but strong and healthy. He asks which of the two he should marry. The young man asks this question in good faith. He should mar-

ry the one he loves best. This is the only answer that can be given.—Aunt Hannah.

### Japan Plum in Nebraska.



The plum tree shown in above photograph is bearing fruit the second year after planting, and the tree was shipped a long distance, having been grown at Rochester, N. Y. Mr. B. F. Seely, the owner, is delighted with this tree, which is the Burbank plum. He is not a large fruit grower, but delights in having a supply of large and small fruits in his home garden. Here is an idea for nurserymen. If the trees they sell bear fruit generously and give satisfaction the buyer of those trees is inclined to be a lifelong patron of that nursery and the rival nurseries will have difficulty in stealing him away. But if the nurseryman sells worthless varieties that do not bear fruit, or that bear inferior specimens after long waiting, or if the trees perish through poor packing or careless handling on the part of the nurseryman the patron becomes discouraged and is not likely to patronize that nurseryman again. Sometimes the nurseryman is wrongfully blamed for trees not living, or not bearing, since many planters lack skill in planting or caring for their product. The nurseryman therefore should educate his patrons so far as is possible in planting and caring for the trees after they have been received by the purchaser.

### The Mill Creek Philosopher.

Do not always offer a penny for the thought of your companion. The price may be out of proportion.

We must not live to eat, but merely eat to live—with permission of the Beef Trust.

Knowledge is power only when rightly used.

Truth may be the highest thing that man may reach, but many men carefully avoid wrenching their muscles in attempts to reach it.

In making a virtue of necessity don't mar the virtue by profanity.

When the wolf comes to the door, don't whimper. Bat him one between the eyes.

Look before you leap, and then pick out the softest spot possible.—Cincinnati Commercial-Tribune.

Climbing the mountain's shaggy crest,  
I wondered much what sight would greet  
My eager gaze when'er my feet  
Upon the topmost height should rest.

The other side was all unknown;

But, as I slowly toiled along,

Sweeter to me than any song  
My dream of visions to be shown.

At length the topmost height was gained;

The other side was full in view;

My dreams—not one of them was true,  
But better far had I attained.

—J. W. Chadwick's Poems.

## Best Offer and Best Fence

We are making to farmers the best and most liberal offer ever made on high grade fence. We will state our offer here in plain words and leave you to be the judge.

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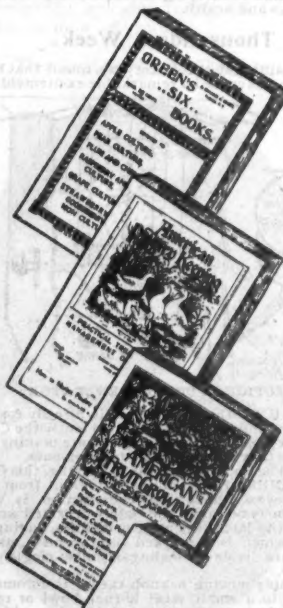
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### Gleanings.

Written for Green's Fruit Grower by Mrs. William E. Noble.

While reading through Green's Magazine on every page that I have seen, I gather thoughts from Master's fold. Thoughts to ponder, to have and hold. It teaches the way of nature clear, Nature's lessons that draw God near.

In fold of flower, in leaf of tree,  
In peal of thunder, buzz of bee,  
In brook's soft gush, as it flows along,  
At sun's soft light, just at the dawn,  
I gather gleanings and store with care  
In Heaven's mansions, for the Master's there.

### Continuation of Western N. Y. Horticultural Report.

Reported for Green's Fruit Grower.

Question: Shall we top-graft Greening trees thirty-five years old? Professor Beech replied, no.

Grand Duke Constantine apple is a favorite here. It is a bright red winter apple. Wolf River was reported very large like Alexander and seems difficult to distinguish from Alexander. The reporters' experience is that it is flatter in shape and not so bright red in color. Wolf River is preferred, in the northwest on account of its hardness. Wagener is a beautiful and delicious apple liable to scald. The trees are short lived and should be used in orchards as fillers. It is a wonderful bearer. Roxbury Russett was mentioned as the only variety in an orchard which did not yield abundantly. Professor Beech advised this member to spray the trees before blossoming and three times after blossoming. The Vice-President showed beautiful specimens of Roxbury Russett. He and other members have found it remarkably productive and desirable. One member claimed that he kept this variety in bearing by applying wood ashes moderately each year, as far as the branches spread. He thus secured seven consecutive crops. Professor Beech advised applying phosphate to the soil about the Roxbury Russett. Mr. Wood manures his orchard each year lightly with barnyard manure and sprays thoroughly once before blossoming and three times after at least. His Roxbury Russett did not bear before he began this thorough spraying, now they bear every year. The spraying does the work.

Question: What shall we graft into Sweet Bough trees? Mr. Powell said graft the Sweet Bough. He sells Sweet Bough apples in Boston at \$4.00 to \$5.00 per barrel. It is a fine apple.

Baldwin. A member said Baldwin was all right if you grow it right. He had taken the prize at the recent St. Louis exhibition over Baldwins grown in the great Missouri apple region. You must cultivate, spray and thin the fruit by hand or you can thin it by sawing off the superfluous branches.

Malden's Blush was a favorite with a large number of the members. It seems to be growing in popularity. It can be kept in winter, which is not generally known. It is in demand, buyers like it. Duchess apple is still a favorite in Western New York for a summer apple. Vice-President Wood has planted Malden's Blush largely, also Wealthy. Duchess does not keep so well with him except when placed in cold storage. Professor Craig said that Gravenstein liked the cold climate and succeeded best in Nova Scotia, in Canada and Michigan; not so well in New York state. It ripens prematurely. A member said that Alexander brought more annual profit than any other apple in Orleans county. One objection to growing Baldwin excessively is that they must be picked at a certain date, whereas if you have other varieties such as Malden's Blush, ripening earlier you can manage your orchards more successfully. Many orchardists could not gather all of their Baldwins last year owing to the scarcity of labor. This applies to all kinds of small and orchard fruits. If you can divide the harvesting season into different periods by planting varieties that ripen at different dates you can harvest with less expense and greater ease.

(Continued next month.)

Man is ever greater than his tools.  
The death of self is the life of the soul.  
The best self-help is helping others.  
Altruism is the highest individualism.  
The shield of faith will not fit the back.  
We live to die that we may die to live.  
Love is the evidence of God's life in us.  
True religion is duty linked to the divine.  
You cannot fatten your soul on furniture.  
Full gratitude is the spring of free giving.  
The infernal must fall before the eternal.  
The poor in goods are often rich in grace.  
God's work must be done in God's way.  
—Ram's Horn.

### Who is Responsible for Bad Roads?

Farmers have unjustly been blamed and cursed for the bad roads that have so long existed in every part of this country. This is certainly a great mistake. Farmers are not the only people who use the public highways, therefore it is unjust to expect that farmers should bear all the expense of building highways. Are not the people of cities interested in good roads? If there were not highways the cities would not be supplied with fruits and other forms of food, and city people have many other uses for roads than in getting their supplies for the necessities of life. The state and the government itself is deeply interested in good roads fully as much as the farmer. Rome set a good example in road building. Two thousand years ago Rome built roads so good and substantial they remain to-day in fairly good condition. Rome could not have conducted her military operations without these improved roadways.

The bad roads of the United States have been a disgrace to this country and are still so in many localities. Statesmen and politicians have overlooked the necessity of state and government aid and encouragement in road making. At the present hour there are a few men such as Senator Armstrong of the New York State Legislature, and United States Representative Brownlow, who have done and are still doing much to encourage good road improvement. Several states have been interested in this subject, but the United States government has so far done nothing so far as I know. The time has come for the government at large to encourage road building. Congressman Brownlow has introduced, or will introduce a bill in Congress providing for the appropriation of over \$20,000,000 as a starter in this most important work. This bill should have the encouragement of every United States Senator and Congressman.

There are grown in California 16,192,876 bearing fruit trees and 13,209,211 non-bearing, covering an area of 452,252 acres, 8,000,000 trees were prune, 5,500,000 were peach, 3,500,000 orange, 3,000,000 apricots, 2,182,000 olive trees. We give figures in round numbers. The kinds of fruit grown in California are peach, pear, apple, quince, cherry, plum, apricot, grapes, figs, oranges, lemons and other fruits; to these we may add the almond and walnut. California fruit growers expend money more freely in planting and caring for fruit trees than fruit growers in the East and as a class seem to be more enterprising than eastern fruit growers. They are also progressive in their methods of growing, packing and shipping. The fact that they are able to grow fruits in California, and ship them across the continent and sell them in competition with fruits grown on the Atlantic coast, indicates the thoroughness of their methods.

Be discreet. Remember that the walls have ears, and let those words which, if repeated would cause trouble, remain unsaid. Indulge not in scandal. Do nothing in secret that you would be ashamed to have done publicly.

An angry man is for the instant insane. His anger controls him absolutely, and he commits acts that he would not think of committing in his calmer moments. Every fit of anger shortens life. Anger severs friendship and life-long attachments. Form the habit of curbing your ire.

Is man immortal? Some people cannot grasp the thought of immortality, but think for a moment of the immortality of character. We can build character, but above all you must have character to begin with. Character is inherited, therefore in one sense we are living over again the lives of our ancestors and progenitors. Our children inherit certain tendencies of our character, and in this inheritance our character is immortal. By and by the earth will contain thousands of people who will inherit something of our character.

Texas is larger than all of New England with New York, Pennsylvania, New Jersey, Delaware, Maryland, Virginia, West Virginia united. Texas is larger than Germany or France. If the entire population of the United States was located in Texas that state would be none too thickly populated.

### ANOTHER LIBERAL OFFER:

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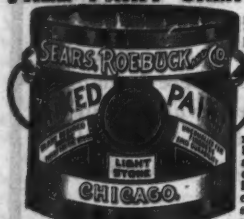
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Reply: Much depends upon the character of the soil. Sandy soil is more easily prepared and more easily kept cultivated and hoed than heavier soil. Much also depends upon the kind of cultivation planned to be given. If ordinary cultivation is given it will not require half the help that would be required for the highest cultivation. He will rely upon transient help to pick the berries I assume. At a guess I will say that he will require at least three men, possibly more, continually to do this work and occasionally will have to have help in hoeing and planting in order to get through the work in due season. Fruit growers must expect spells of bad weather when they cannot work on their fruit plantations but when the weeds grow rapidly. Therefore after the storms are over additional help is necessary.



### ICE DRAPERY IN LOUISIANA.

Prof. H. E. Van Daman, the associate editor of Green's Fruit Grower, is at Ferriday, La. He has photographed the above beautiful scene, showing the presence of frost on the trees and shrubbery. There is not much to suggest the south land in this photograph, simply the moss upon the large trees in the foreground and the open river in midwinter. The Frost King has a way of treating upon the toes of our southern neighbors occasionally, much to their distress. It is difficult to mark the line in the South where frost is not liable to do injury. Thousands of acres of orange orchards have been destroyed by the appearance of severe frost at points in Florida where it was supposed orange trees were perfectly secure and safe from freezing. During the present winter freezing extended further south than usual.

### STRAWBERRIES FOR FARMERS.

No fruit grown is such a universal favorite as the strawberry. Everybody is fond of them, and I have often wondered why so few farmers attempt to grow them at all, says Ohio "Farmer." They seem to think there is some mysterious art about it that prevents any but the initiated from succeeding, while the fact is that they can be grown as successfully as any of the small fruits and garden vegetables and quite as easily if the necessary work is done at the proper time. In my neighborhood not one farmer in ten attempts to grow them at all and of those who try not one-half succeed. Many farmers excuse themselves by saying they have no place to plant them. Then I would make a place. Land is not so valuable that one can't afford to devote an eighth or sixteenth of an acre to the growth of this luscious fruit.

A mistake that many make who try to grow strawberries is in planting too small a patch. It is little more work to tend a patch one rod by ten than one by five. Above all don't plant a little square patch in one corner of the garden where all the work of tending has to be done with the hoe, for nine times out of ten the work will not be well done and the result will be a failure.

A few years ago one of my neighbors bought two hundred plants of some fancy variety, and set them in one corner of his garden in a bed like an onion bed about 12x12 feet; he only let them stand one year and got no berries of any account at all. He said: "It don't pay to raise strawberries any how."

A nice shaped patch and large enough for a family of eight or ten is one rod by ten. Fit the ground as early in spring as it will do to work, and fit it thoroughly, then lay it off in perfectly straight rows four feet apart; that will make four rows.

How Many Strawberries?—The question is frequently asked, "How large a

strawberry bed do I want, to supply my family with plenty of fruit during the season?" In answer, and on the supposition that strawberries will last a month from the earliest Crescents to the latest of the Kentucky, two or three quarts or more will be wanted daily for the table, for a moderate family. If the kinds are properly selected and managed, so as to give a continuous and tolerably regular supply, about three or four bushels will be enough for the season. A hundred bushels per acre is a fair crop, but two hundred are often obtained. One-twentieth of an acre ought to give a good family supply, and this would be a space one rod wide and eight rods long, or two rods wide and four rods long. Some skilled cultivators would get all they wanted from half this ground. But without intelligent management and proper selection, novices might have a large mass or ripe berries at one time and a very scant picking at another; and careless cultivators would allow their plants to become choked with grass and weeds, and give a very small supply of puny berries after the first or second year. Some men or families will be satisfied with smaller supplies of strawberries; and will obtain from eight square rods, a sufficient quantity of these, and plenty of raspberries, blackberries, and currants.

Where there are a hundred farmers who have apples and cherries growing upon their places there are not five who have an ample supply of strawberries, raspberries, blackberries and currants. Many farmers have a grapevine or two of some old useless variety like Isa-

## What's the Matter With Your Buggy?

Worn out? How badly? How's the running gear and body? Good? All right! We can fix the rest. We are buggy doctors. Your buggy needs a new top and re-finish of paint. That will put style, wear and life into it again.

How does this offer strike you? We will make you a new high-grade top to measure in our own factory, guaranteed to fit.

We will ship it to you by express all charges prepaid.

With the top we will send you absolutely free, express also prepaid, high-grade carriage finishing paint—either in one or two colors as you choose—to re-finish your entire buggy.

With the paint goes a first-class paint brush and full painter's instructions, together with material for removing the old paint—also free.

When the top and painting outfit arrives—which won't be long in coming as express travels fast—put the top on and re-finish your buggy.

How do you know you will be satisfied with the top when you get it?

That's the beauty of our plan of selling on trial.

We take the top back at 50¢ per bushel.

We give you every cent of your money back and prepay express charges both ways after you have had it 30 days if you want us to.

We leave it all to you—no back talk from us if you return it.

The paint and brush—you would have the paint on your buggy and would have used the brush—wouldn't you? So we would not expect you to send that back, and it would be our free gift to you together with 30 days free use of the top, just for the trouble of trying our fair proposition.

How do we come out on such a liberal offer?" you ask.

Well, the fact is we make such good buggy tops that no one wants to send them back. The top, together with the re-finish outfit, makes an old buggy new at a very small expense.

If you want to buy a new buggy, re-finish the old one for a second buggy to use in bad weather and on muddy roads. If you want to sell or trade your old buggy it will bring at least twice as much with a new top and re-finish.

We manufacture every part that goes to make up vehicle-tops, cushions, seats, dashes, everything.

We can furnish you any part you want for a buggy.

We want you to have a sample of the material we use in our tops, and have some nice pocketbooks—bill size.

If you will send us your name and address, together with the name of one of your neighbors who might want a buggy top, we will print your name and address on one of these books and send it to you absolutely free, together with samples of linings, color card of paints, and our booklet "Old Buggies Made New," which tells all about our most liberal method of manufacturing buggy supplies and selling direct from factory to you.

Don't delay writing for this pocketbook until they are all gone. Do it now!

In your letter tell us how long you have used your buggy. Write for Cleveland Top Co. Catalogue No. 18.

The United Factories Company  
Dept. 18 Cleveland, Ohio

Please mention Green's Fruit Grower.

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FIRST QUALITY HUMAN HAIR, none better. (ordinary colors) at the following prices:  
2 oz. 20 inches, \$0.90 3 oz. 24 inches, \$0.90  
3 oz. 28 inches, 1.25 3 1/2 oz. 30 inches, 1.40  
3 1/2 oz. 32 inches, 1.40 4 oz. 32 inches, 1.40  
Grays, Blondes, etc., 1/4 to 1/2 more. Send sample of hair, we will match perfectly. SWITCHES sent by mail on approval, to be paid for when received if satisfactory; otherwise return to us by mail. Money refunded if desired. Illustrated Catalogue of Switches, Wigs, Curls, Bangs, Pompadours, Waves, etc., 25¢. ROBERTS SPECIALTY CO., 118 & 114 Dearborn St., CHICAGO. THE OLD RELIABLE HAIR GOODS HOUSE. We sell more faultless fitting WIGS than all other dealers in Chicago. Our hair goods have been the standard for many years.

## SCARF PIN GIVEN TO SUBSCRIBERS



While in New York recently I found in one of the largest Broadway stores a stickpin which I consider attractive as a gentlemen's scarf pin. The above photograph shows the design which we offer as a premium to each subscriber to Green's Fruit Grower who sends us 50 cents and claims this premium when subscribing. The pin is a green stone and is surrounded by what appears to be a network of little heads. This is a pin that any gentleman of taste can wear. A friend who has a \$200 pin wears this pin in his travels where he is afraid of losing his valuable diamond. This pin can be used by ladies in various ways. We are convinced that this pin will please the readers of Green's Fruit Grower, but do not fail to claim the pin when subscribing, since if you do not claim it at that time you cannot get it as it is impossible for us to look over the many thousand subscribers in order to trace your subsequent claim.



# latter buggy?

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## Spring's Approach.

Written for Green's Fruit Grower by  
Martha Shepard Lippincott.

The maple buds are bursting,  
And birds begin to sing,  
As all mankind is longing,  
To welcome the bright spring.  
The little frogs are croaking,  
Down in the meadow rill,  
And how the hens are cackling,  
For they cannot keep still.

When voices of all nature  
Are singing of the Spring  
And of the lovely flowers  
That it will surely bring,  
Arbutus and sweet violets,  
The first to come around  
To see old Winter vanish,  
Are peeping from the ground.

And how their dainty fragrance  
Will kiss the breath of Spring,  
While maid and lover, praises  
Of their perfume will sing.  
The youth intoxicated  
With all the joys around,  
Will grow supremely happy  
As his sweetheart is found.

Into her willing ears he  
Will pour his joy and love,  
The while their hearts seem swelling  
And soaring far above,  
In dreams, of blissful hours  
That for their lives will be;  
They only love of springtime,  
Before them, seem to see.

## Planting Small Fruits.

The purchaser, as a rule, sets the raspberry and blackberry plants far too deep, says Practical Farmer. An examination of the plants will show that the roots are but few and are of a spreading nature. They really require to be but an inch or two below ground, as they were before being dug. But the inexperienced planter appears to imagine he is handling a small tree and sets the plants (canes) perhaps four to six inches under ground, which results in certain smothering out of the base of the canes, where the shoots for the next year are to form. Neither raspberries nor blackberries require to be deep enough under ground to be fairly covered with soil. Fixed in this way there would be but few complaints of the plants not growing. Strawberry plants are often destroyed in the same way. They are set so deep that the top of the crowns are underground or are low enough so that soil is washed over them with the first heavy rain. A little thought would often suggest to those about to plant about the proper depth to set plants. The proprietor of a nursery recently related to the writer how a lady had come to him complaining that the 50 asparagus plants he had furnished must have been dead when delivered, as she had but a dozen or so of live plants to show for her purchase. To prove what she said she had in her carriage one of the plants just dug up. She was first staggered by being told her "dead" plant was a live one, in fairly good condition. Then further inquiries developed the fact that she had set the plants a foot deep as advised by her gardener. It never struck her that it was quite impossible for the small two-year plants to struggle up through a foot of soil. It was late in the season, July, but she was advised to have the gardener take off at once, eight inches of the soil, as giving her a chance of saving the bed. The one accustomed to dig up plants soon learns the proper depth to set them. Even trees are often set deeper than need be. Note.—The above is good advice, but be careful to set deep enough. Either too deep or not deep enough is fatal.—Editor G. F. G.

## The Blackberry Profitable.

It is not necessary to do any pruning the first year; the second year when the young growth reaches the height of two feet, it may be topped by pinching out the heart; the plant will then throw out lateral branches and give greater amount of bearing wood for the season's growth says Ohio "Farmer." After the fruit has been gathered the old canes must be removed from the ground, cutting with large pruning shears, and in the spring when the leaves begin to grow cut back the lateral branches to 15 to 18 inches, this will be all the pruning that is required. To overcome the objections named in the beginning of this article at picking time; get rid of all new suckers that have come up between the rows that might give trouble to the pickers in gathering the fruit, by mowing close to the ground with a short-bladed briar scythe, by this means you can quickly and easily get rid of this objection in gathering the fruit.

The growing of choice blackberries is easy, any one may grow them success-

fully and profitably if a few simple rules are observed. An acre well cared for should easily produce one hundred bushels, and double that amount we believe would be no uncommon yield if given extra care.

Another valuable feature about blackberries is the length of time that a plantation will continue to bear profitable crops. It is not necessary to renew the plantation every few years as is the case with other fruits, although it is generally supposed that they must be renewed after bearing a few good crops.

The ostrich would be nearly extinct at this date were it not for its wonderful plumes which are so highly prized by the ladies. The fact that these plumes are exceedingly valuable has led to the taming of the ostrich. This bird is now kept in restraint much the same as our domestic hens and turkeys. We should be glad that this noble bird has not become extinct. It has been known to be strong enough to carry a full grown man upon its back.

From milk they are now making various kinds of novelties such as door-knobs, backs of brushes and almost everything of that kind except billiard balls. The output made from milk can hardly be distinguished from celluloid. Celluloid is inflammable and is a dangerous thing to have about the house. A man came near having his eyes put out by smoking a pipe the stem of which was made of celluloid. A spark of fire from the burning pipe caught in the celluloid stem and it flashed up like a powder magazine.

From 250,000,000 to 275,000,000 bushels of potatoes are raised in this country every year, and yet there are annually imported from other countries no less than 150,000,000 bushels. Americans are certainly fond of the tubers.

Apples in England.—This year's fruit harvest throughout England is the most abundant ever known. Apples are showing a record crop. There is a glut of this fruit in the market.

## Do You Get Two Copies of Green's Fruit Grower.

If you are receiving two copies of Green's Fruit Grower it indicates that the name of your post-office has been changed unknown to us, and that we are sending our magazine to the former name of your post-office as well as the new name. Or, it indicates that you have moved and that we are by mistake sending our magazine to your old post-office address as well as your new post-office address. Remember, therefore, that when you get two copies of our paper we are not aware of this fact and that we request you kindly to give us prompt notice by postal card. When you do this always give former name of your post-office as well as its present name.

In some of the fruit growing districts abroad, where the frost does much damage among the orchards, there exists a curious mode of protecting the trees from the cold. It is none other than the creation of an artificial fog. A cart is packed with wet straw, and at the bottom is a kind of stove filled with burning tar, and fitted with a revolving fan to regulate the draught. As the cart moves along a dense fog is caused by the heat from the tar passing through the wet straw. The vapor thus created rolls out in huge volumes and clings to the neighboring trees. The frost is thus thawed from the branches and the fruit is saved from injury.

The lovely girl hesitated.  
"Tell me, Mr. Throgson," she said, "am I the first girl you ever loved?"  
"I will be honest with you, Miss Eunice," replied the young man. "You are not. But you are far and away the most beautiful."

The rest was easy.—Chicago Tribune.

It is estimated that about 250,000 canary birds are annually reared by the peasants of Germany. Of these, 100,000 are shipped to the United States. The next greatest demand for the birds comes from England, which takes 50,000 birds annually.

## "Tip Top" for You

No one can afford to be without a platform scale when any responsible party can have a **FREE 15-DAY TRIAL** of a **"TIP-TOP"** 800 lb. portable platform scale, mounted on wheels, with highly polished sliding poise beams, hardened tool steel pivots, adjustable bearings and platform 18" x 20". Elegantly finished in chrome and black, **WARRANTED** absolutely free from all defects and guaranteed accurate and durable by **"JONES HE PAYS THE FREIGHT"**. If it suits send us \$9.00; if not, return the scale. It will not cost you a cent as we **PREPAY THE FREIGHT**. Sign or copy the coupon and send for full list of all kinds of scales at equally low prices.

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Send me a "Tip-Top" 800 lb. scale.

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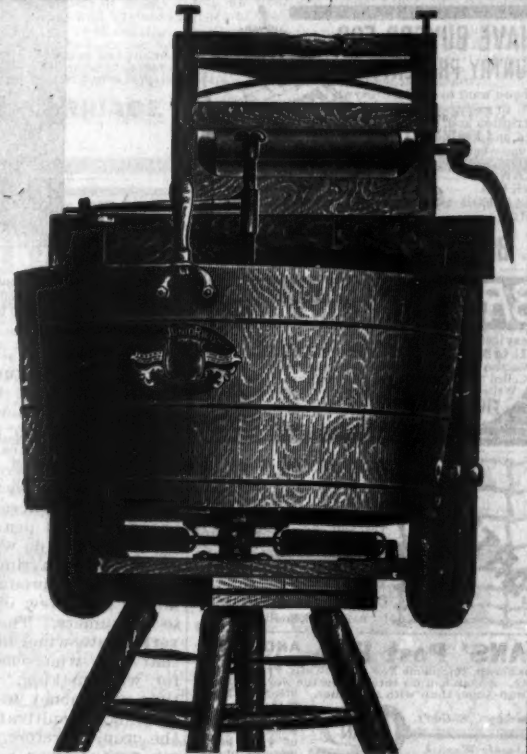
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## This Washer Must Pay for Itself.

**A** MAN tried to sell me a horse, once. He said it was a fine horse and had nothing the matter with it. I wanted a fine horse. But, I didn't know anything about horses much. And, I didn't know the man very well either. So I told him I wanted to try the horse for a month. He said "all right, but pay me first, and I'll give back your money if the horse isn't all right." Well, I didn't like that. I was afraid the horse wasn't "all right" and that I might have to whistle for my money if I once parted with it. So I didn't buy the horse although I wanted it badly. Now this set me thinking. You see I make Washing Machines—the "1900 Washer." And, I said to myself, lots of people may think about my Washing Machines as I thought about the horse, and about the man who owned it. But, I'd never know, because they wouldn't write and tell me. You see I sell all my Washing Machines by mail. (I sold 200,000 that way already—two million dollars' worth.) So, thought I, it's only fair enough to let people try my Washing Machines for a month, before they pay for them, just as I wanted to try the horse. Now I know what our "1900 Washer" will do. I know it will wash clothes, without wearing them, in less than half the time they can be washed by hand, or by any other machine. When I say half the time I mean half—not a little quicker, but twice as quick. I know it will wash a tub full of very dirty clothes in six minutes. I know no other machine ever invented can do that, in less than 12 minutes, without wearing out the clothes. I'm in the Washing Machine business for keeps. That's why I know these things so surely. Because I have to know them, and there isn't a Washing Machine made that I haven't seen and studied. Our "1900 Washer" does the work so easy that a child can run it almost as well as a strong woman. And, it don't wear the clothes, nor tray edges, nor break buttons, the way all other washing machines do. It just drives soapy water clear through the threads of the clothes like a Force Pump might. If people only knew how much hard work the "1900 Washer" saves every week, for 10 years, and how much longer their clothes would wear, they would fall over each other trying to buy it. So said I, to myself, I'll just do with my "1900 Washer" what I wanted the man to do with the horse. Only, I won't wait for people to ask me. I'll offer to do it first, and I'll "make good" the offer every time. That's how I sold 200,000 Washers. Let me send you a "1900 Washer" on a full month's free trial! I'll pay the freight out of my own pocket. And if you don't want the machine after you've used it a month, I'll take it back and pay the freight that way, too. Surely that's fair enough, isn't it? Doesn't it prove that the "1900 Washer" must be all that I say it is? How could I make anything out of such a deal as that, if I hadn't the finest thing that ever happened, for Washing Clothes,—the quickest, easiest and handiest Washer on Earth. It will save its whole cost in



a few months, in Wear and Tear on clothes alone. And then it will save 50 cents to 75 cents a week over that in Washerwoman's wages. If you keep the machine, after the month's trial, I'll let you pay for it out of what it saves you. If it saves you 60c a week send me 30c a week, 'till paid for. I'll take that cheerfully, and I'll wait for my money until the machine itself earns the balance. Now, don't be suspicious. I'm making you a simple, straightforward offer, that you can't risk anything on anyhow. I'm willing to do all the risking myself! Drop me a line today and let me send you a book about the "1900 Washer," that washes clothes in 5 minutes. Or, I'll send the machine on to you, if you say so, and take all the risk myself. Address me this way.—R. F. Bieber, Gen. Mgr. of "1900 Washer Co.," 649 Henry St., Binghamton, N. Y., or 353 Yonge St., Toronto, Canada. Don't delay, write me a post card now, while you think of it.



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Green's Fruit Grower, Rochester, N. Y.



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The Index tells you, in ten minutes, all you need to know for comfort with lamps and the saving of chimney-money; sent free; do you want it?

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Gets ALL the Cream. Complete separation in 40 to 60 minutes is made by circulation of cold water through patented Center Column and Outside Jacket. Blends. Practical. Water and milk do not mix. "Equals a \$150 machine." 40,000 Farmers use it.

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For Fences, Telephone Post Holes, Wells, Drilling, etc. A man can do three times the work with an Iwan Auger than with any other. Sizes 8 to 18 in. \$8.50 each; 18 in. \$10.00; 24 in. \$12.00. Inquire of your hardware or implement dealer, or write us for particulars and circulars of our tools you need on the farm. Sample special price to introduce. IWAN BROTHERS, Department 8, STREATOR, ILLINOIS.

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Cuts a track 4 feet wide, one foot deep. Will plow a new cut forest. His double action Cutaway Harrow keeps the land true, moves 15,000 tons of earth, cuts 30 acres per day.

His Rev. Disk Plow cuts a furrow 5 to 10 inches deep, 14 inches wide. All of these machines will kill witch-grass, wild mustard, charlock, hardhack, sunflower, milkweed, thistle, or any foul plant. Send for circulars.

Cutaway Harrow Co., Hingham, Conn. U.S.A.

Green's Nursery Co., Rochester, N. Y. —I received breeding cockerel to-day in fine condition. He is a very fine bird. I am more than pleased with him. I consider him the best one in town.—Allen P. Gaines, Granville, Mass.

### An Old Time Vineyard.

Editor Green's Fruit Grower:—Thirty-five years ago I planted a vineyard twelve miles southwest of Rochester, N. Y. At that time vineyards were as scarce as hen's teeth in Western New York. There were a few daring men who dreamed of vineyards but there was scarcely any one brave enough to plant one. People then did not eat grapes unless they happened to have a vine on their place, which was unusual. I remember a neighbor who was noted for his skill in growing fruits. This man had five or six grapevines in bearing and as a boy I used to buy grapes of him, paying 3 cents a pound, which was considered a low price. Now after thousands and thousands of acres of grape vines have been planted in this state 3 cents a pound would be considered a very high price.

The location of my vineyard was on a southeastern slope sheltered on the west by woodlands. The soil was a mixture of sand and gravel. The Concord and Delaware were not known to me at that time; Niagara, Worden, Diamond and other similar varieties were not then in existence. I confined my planting to three varieties, the Catawba, Isabelle, and Hartford Prolific. The vines thrived and made excellent growth and bore abundantly, but the fruit seldom matured perfectly, owing to the fact that the first two varieties were too late in ripening for localities like mine where there was no body of water near by to

An Illinois Fruit Grower.—Kewanee, Ill., is not an ideal place for fruit growing on account of unfavorable climatic conditions. I am greatly interested in fruit growing. I am located on cleared timber land which is better adapted to orcharding than prairie soil on which the wood does not mature so well, thus the trees are in more danger of injury by severe winters. I have an orchard of about 200 cheery trees in bearing. The Dyehouse is the first to ripen. It does well, the quality is good and it being the first cherry in the market brings a good profitable price. Early Richmond comes next. It is a good bearer and a good cherry. I have also Late Richmond, Ostheim, English Morello and others. Kieffer pear does moderately well. I have other dwarf pear trees that bear fruit freely, but this is not much of a pear country.

I have Cardinal, Haymaker, Shaffer, Columbian, Loudon, King, Cumberland and Conrath raspberries. We find Cardinal hardy here. Shaffer is a good bearer but not so hardy. In blackberries we have many kinds, but Snyder is the hardiest, thus the best for this section. In strawberries I have many varieties and am always testing new kinds. Last spring I planted Climax, Dunlap, Gladstone. Kewanee near by with 15,000 inhabitants makes a good market for all the fruits we can grow. The Western Tube Works are located here and their employees consume large quantities of fruit.



The Superintendent at Green's fruit farm has two boys who are bright little fellows, fond of fun and fruit. The above is a photograph of these boys after visiting an apple tree. Nothing does more to make childhood on the farm happy than an abundance of fruit.

keep off early autumn frosts. Hartford ripened early but the berries dropped from clusters and were lost. If I could have planted such varieties as Concord, Worden and others that ripen so much earlier I would have made a fortune out of my little vineyard, which consisted of about five acres. Occasionally my grapes ripened nearly to perfection but what was I to do with such wagon loads of grapes at a time when grapes as a commercial product were scarcely known? But few of them could be sold to consumers. The bulk must be converted into wine, but there were few at that time who would buy them even for wine making. I spent considerable time and money in building trellises, in pruning, in cultivating and in gathering the crop, therefore, as you may imagine my venture was not remarkably profitable in the way of dollars and cents. Trellis wire cost then 12 1-2 cents per pound and cedar posts 85c each. But I enjoyed seeing these vines thrive, and was never so happy as when wandering among them admiring the beautiful clusters. My failure, if it may be so called, was owing to the fact that there were no varieties known at that time that were suitable for my locality, which demanded an early ripening variety.—James A. Green, N. Y.

Better Than Nothing.—"Any game around here?" asked the city sportsman. "Goin' ter be a game uv baseball back uv th' village graveyard this afternoon," replied the native. "Good!" exclaimed the city sport. "I'll stay and take a shot at the umpire."—Chicago News.

The man who trusts to luck to make him rich is generally a strong believer in bad luck by the time he is forty-five.—Somerville Journal.

The feller that knows the least generally insists on tellin' the most.

I am a great admirer of Green's Fruit Grower which I have taken for many years. I expect to be a lifelong reader.—Edward P. Lincoln, Ill.

Remedy for Snake Poison.—"Despite the efforts of an army of scientists, no practical antidote for the venom of a rattlesnake has ever been discovered," says Pearson's. "This is not so. For more than a hundred years no person bitten by a rattler in this section has died from its poison when the Geer remedy has been applied. This remedy was secured from a half-breed Delaware Indian, John Johnson. The latter was no scientist, yet in a restricted sense he was, if science is knowledge systemized, for he knew that the arrow-headed violet, *V. sagittata* of botany, was a perfect prophylactic to the poison of a rattler. He also knew it was important to apply the macerated root of the lion's heart to the wound. Johnson would let a rattlesnake bite him for a jug of whisky, cure the bite and then enjoy drinking the liquor, not touching it, however, until the poison was eliminated from his system."

In one year the United States harvested 15,187,819 barrels of salt; over 5,000,000 barrels of this came from Michigan and about the same number of barrels from New York. Kansas furnished 1,648,000 barrels and Ohio 164,000 barrels. California, Texas, Utah, West Virginia, Louisiana, Pennsylvania, Illinois, Oklahoma, Massachusetts follow in the order named as salt producing states. Entire value of the product was about \$3,000,000. Salt was first made in this country from sea-water.

"Gracious!" exclaimed Mr. Swellman, "the baby has eaten a lot of that dog biscuit!" "Never mind, dear, replied Mrs. Swellman, "Dear little Fido has often eaten the baby's food, so it serves him right."—Philadelphia "Ledger."

**FIGPRUNE CEREAL COFFEE**

Highest award given to any Cereal Coffee at Louisiana Purchase Exposition.

**HERE'S YOUR HEALTH**

An aromatic, steaming cup of **Figprune Cereal Coffee** something like coffee in flavor, only better when you know it. You will learn about this goodness of fruit and grains in a perfectly roasted and blended substitute for coffee, when you have tried Figprune. Your grocer has it or can get it. Prepared in California's famous fruit section by **THE FIGPRUNE CEREAL CO.** 285 Market St. San Jose, California.

If your grocer cannot supply you, send us for free sample and booklet.

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Marble and granite monuments become discolored, moss-grown, and in time crumble and decay. Some cemeteries now prohibit marble.

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Monuments are indestructible. Time and the elements do not affect them.

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If in need of monuments, markers, headstones, posts, covers or statuary give us approximate sum you can spend and we will send a variety of **Beautiful Designs**, prices, etc. No obligation to buy. We deal direct and deliver everywhere.

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Manufacturers of all kinds of fruit baskets and crates. Write for Catalogue and Price List.

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**FRUIT PACKAGES OF ALL KINDS**

Why not order now and get the discount allowed on winter orders. Price list free. Address, **BERLIN FRUIT BOX CO.** BERLIN HEIGHTS, Erie County, OHIO.

**Berry Boxes and Baskets**

Fruit and Vegetable Packages of every kind. Send for catalogue. **New Albany Box & Basket Co.,** New Albany, Ind.

**PEACH & OTHER FRUIT TREES** at wholesale prices. Price list free. **H. S. JOHNSTONE, Box 10, Stockley, Del.**

**Apple Trees FOR SALE.**

ALSO Plum, Peach, Pear, Quince and Ornamental Trees.

**Also Grape Vines**

**BERRY PLANTS, Etc.** All at Half Agents' Prices. Let us price your list of wants. Catalogue free. Address, **GREEN'S NURSERY CO.** ROCHESTER, N. Y.



YOUTH'S DEPARTMENT.

A BOY'S SCHEME.

I have read a good story in a Philadelphia paper about a dozen long-legged white Shanghai chickens, which were left on exhibition in a poultry-fancier's store in that city, over Sunday. About noon, two little urchins came along and admired the chickens, and speculated as to whether they were intended for fighting or eating purposes. During the discussion one of the urchins pressed his nose against the window and a particularly long-legged rooster pecked at it. The boy jumped, then laughed, and turning to his companion, said: "Jimmy, I've got a scheme."

He searched in front of the store until he found a grain of corn, and then put his scheme in execution. It was a very simple one, and consisted of placing the grain of corn against the window-glass, when the whole flock of chickens made a scramble for it. They scrambled and fought for a shot at that grain of corn, until their beaks were nearly worn out in pecking against the glass, and the boys were almost suffocated with laughter. The guileless chickens never tumbled to the ruse of the wicked boys, but plunged after the corn, as the boys moved it across the window, with as much hope and eagerness after they had been defeated twenty times as on the first trial. When the boy stood on his tip-toes and held the grain about two feet above the tallest chicken, one rooster stood on the shoulders of another and dashed his beak against the glass until he fell back exhausted.

This sport (for the boys) was kept up for an hour, and afforded a great amusement to a crowd of spectators, until an old Quaker came along and walked the boy with the grain of corn away by the ear. For an hour afterwards the chickens stood around each on one leg, trying to make out why they didn't get that grain of corn.—G. B. 'G.

YOUTH AND OLD AGE.

Young Man.—I wish I had the wealth of old Mr. Jones. He has more money than he seems to have use for and here I am suffering for the need of a little money with which to start my business enterprise.

Old Man Jones.—I wish I was as young and as strong as the young man who just passed my place. I would give all my wealth for that young man's youthfulness and vigor. With my experience I see plainly that youth, vigor and ability would be worth to me more than all my accumulations. If I could start life over again as a young man I could make vastly more of my opportunities.

Thus it is the world over. The young wish for the accumulations of the aged, and the aged sigh for the vitality and opportunities of youth. But each has his reward. There are pleasures for every period of life. Youth should be a period of repression and sacrifice of present joys and comforts for the future. Such repression and such sacrifice builds up character and makes the youth a man. Indeed restraint is necessary all through life. The aged man must restrain his appetite if he would live long. He must restrain his activities to a certain extent. Restraint then is the key note of success and long life for both young and old people. But after having sacrificed himself for many years for future success, the man has arrived at the age of 50 or 60 years, he may relinquish his acquired habit of close economy. He may enlarge his benefactions, and indulge his tastes for fine paintings, statues, fine houses and grounds, horses, carriages or automobiles. The danger is that having practiced restriction and economy through so many years it is difficult for him to break away from those early habits, thus many when they become aged have too firm a grip upon their money.

"Don't you think you have a good mother, to spread such nice, large slices of bread and Shaffer raspberry jam for you?" "Yes, but she would be still better if she'd let me spread on the jam myself."

The grumbling hen lays no eggs.

ANOTHER COMBINATION OFFER:

FARM JOURNAL,  
VICK'S MAGAZINE,  
GREEN'S FRUIT GROWER

All three papers one year for 50c., the value of one. There are others nearly as liberal on another page.

SPRING AND ITS PROMISES.

Written for Green's Fruit Grower by Mrs. L. G. Whittier.

Spring, the season of poetry and song, is at hand. She comes sweeping over the hills in great state, and in her train are music, fragrance and beauty. Nature wears her gayest, most pleasing aspect in honor of the long expected guest. The earth, like a capricious belle, has cast aside her splendid mantle of ermine, spangled with pearls and diamonds, and donned a rich robe of emerald velvet, adorned with the simple flowers of the field. The trees are likewise clothed in new and living green, and from the thick foliage burst the glad songs of many birds.

"Now the bright morning star, day's harbinger  
Comes dancing from the east and leads with her  
The flowery May, who from her green lap throws  
The yellow cowslip and the pale primrose."

This glad time of the year with all its joy and beauty is likewise rich in promise. There are grand possibilities wrapped up in each bursting bud and slender shoot. Warmed by the genial sun, and refreshed by the gentle spring rains, the tender young plant will burst into complete beauty and symmetry. But, alas! too often the cruel frost nips it ere it reaches maturity; and blackened and shriveled, it droops to the ground.

Such is life. Youth, the springtime of existence, is characterized by longing desires and fond expectations. But how often do the brightest promises prove to be mere illusions! The inconstancy of the world and the merciless blasts of misfortune smite like blighting frost, and the most cherished hopes fall like dry leaves before the wind. The morning which dawned so fair and beautiful ends in gloom and sadness.

HOW TO KEEP YOUNG

By Homer Darling Trask.

Eat plenty of fruit with your meals. Keep your physical and spiritual being clean. Practice deep breathing in the open air. Get all the variety possible out of life that is wholesome and legitimate. Dash "extract of witch" hazel on your closed eyes to keep them lustrous, bright and sparkling. Bathe daily in tepid water. Sleep with your bed-room window wide open. Rinse the hair every morning with cold water and rub briskly but not harshly five minutes. Refresh your wearied body and soul daily by a half hour's rest "in the silence."

"Jones has bought a new talking machine." "That's nothing, I married one, my dear boy."—Puck.

"Do you really believe that Job suffered from boils?" "I really believe he did—if he had 'em."—Cleveland Plain-Dealer.

Physician—I have made a new man of you. Bocker—Thanks, but you will have to find the old man for payment.—Harper's Bazar.

Father—I am very shocked! Your mother tells me that you are engaged to three young men. Daughter—Oh, well, pa, they are all football players, and when the season closes I can marry the survivor.—Judy.

"Don't you think," asked Mrs. Oldcastle, "that our minister is inclined to be hypercritical?" "Oh, my, no!" replied her hostess. "I believe he's just as good as he pretends, but I ain't so sure about his wife. If she ain't a good bit of a hypocrite I don't know what one is."—Chicago Record-Herald.

"True happiness," remarked the moralizer, "is found in the pursuit of something, not in catching it." "Huh!" growled the demoralizer. "Tell that to some man who never chased an owl car."—Chicago Daily News.

"Honesty is the best policy," but honest men pursue that policy not as a policy but as a matter of justice. Yesterday I passed the wreck of a business firm who started out with great ado, and high announcements. The first act of this firm was a treacherous act. The record of the firm continued to be that of sharp dealing. The patrons of the firm were often deceived in the products sent them and in some instances received no value whatever for their money. The end of this firm can be easily prophesied—it was failure. It does not take the public long to learn who is honest and who is dishonest.

You Can't Get Cheated on Split Hickory Buggies

**WHY?** First—Because they are made by a concern with a reputation to protect that is founded on honest material and workmanship and honest and fair treatment of all customers. Second—Every piece of material in a Split Hickory Buggy is guaranteed for two years. Third—Every Split Hickory Buggy is sent out on a positive, definite 30 Days' Free Use Plan, backed up by an absolute agreement on our part to take back any buggy at our expense if it is not satisfactory to the purchaser, refunding every cent of the purchase price. Our Two Year Guarantee gives you better protection than if you came to our factory to order your own buggy and watched the process of its manufacture from the time the hickory is split from the log until it reaches the shipping room, where the finished buggy is crated for shipment to your station.

**This Guarantee** places upon our shoulders the entire responsibility of building you a first-class buggy. If we were called upon to be constantly repairing and replacing defective parts the profit on a buggy would soon be eaten up in these repairs. That's the reason we are so particular in the selection of all material, and that is why we pay more for our material and throw out every piece of hickory that shows the least sign of knots, wind-shakes or imperfections of any kind. That is also the reason that it pays us to split the hickory from the log instead of sawing it, which is an expensive operation and causes a great deal of waste, but in the long run it is economy, and that is also why we employ skilled labor at skilled labor wages in every department. That is why we equip every buggy with long-distance, dust-proof axles made of the best quality refined steel, use nothing but oil-tempered springs; the upholstery, every thread of it, all wool 16-oz. fast color broadcloth; box frame easy riding spring cushions; full length tops made water-proof and very durable; why every weak point is braced and reinforced; shafts, the best quality double braced with heel and corner braces; and that is also why it costs us twice as much for the painting as the ordinary painting, because it is painted by the old-fashioned oil and lead process, with all wood-work carried 100 days in pure oil and lead, and every Split Hickory Special Top Buggy is furnished with 16 coats of painting, each coat rubbed out and thoroughly dried before the next is applied.

These Are Some of the Reasons Why Our Split Hickory Special

Top Buggy is the most popular buggy in the U. S. today. These are also the reasons that where one buggy is sold others follow. The price is \$50 and it is sold on 30 DAYS FREE USE PLAN. You can buy buggies cheaper than \$50, but not of the kind or quality of our SPLIT HICKORY SPECIAL TOP BUGGY. We are not competing with a shoddy class of goods. You do not want that kind of goods if you want to make a good investment with your money. It is not economy to buy a cheap article because the price is low when there is no value attached to it. It is worth something to know that The Ohio Carriage Mfg. Co. has a record for fair dealing with thousands of buggy users all over the United States and its references are the leading banks and business houses of Cincinnati. Let us send you our Free 1905 Catalogue, it is said to be the handsomest and most complete buggy catalogue ever sent out by a carriage manufacturer. It is absolutely free, contains 100 pages of buggy and harness information and you ought to have it to post yourself on the best that is made in the buggy and harness line and sold at money-saving prices direct from the factory to you. Write for our catalogue today. We will send it postage prepaid promptly on receipt of your inquiry.

**THE OHIO CARRIAGE MFG. CO., (H. C. Phelps, Pres.)**  
**STATION 26 CINCINNATI, OHIO.**

FREE A \$1.00 BOX OF MEDICINE

WRITE FOR IT TO-DAY

Elmo Cactarine is a new preparation that cures Heart Disease, Stomach Trouble and Nervous Disorders quicker than anything in the world. To prove this we will send a large \$1.00 box on trial. Use the medicine 30 days as per directions, if at the end of that time it has helped you, send us the \$1.00 to pay for it. If it fails to satisfy, you owe us nothing. Send for a box, try it, then decide whether it is worth a dollar to you. Write to ELMO CHEMICAL CO., 608 Western Bldg., San Mateo, Ca.

LION BRAND GRAFTING WAX

Price of Grafting Wax, 1/4 lb. postpaid, 25 cents 1 lb. 40 cents, postpaid; 25 cts. per lb. not prepaid. GREEN'S NURSERY CO., Rochester, N. Y.

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We are the largest manufacturers of vehicles and harness in the world selling to consumers exclusively.

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No. 449, Top Buggy. Price complete \$49. As good as sells for \$60 more.

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Our large Catalogue is FREE. Send for it.

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NICKEL PLATED NUT PICK SET

GIVEN FREE TO OUR SUBSCRIBERS

This is both a useful and an elegant premium. The set consists of a handsome and strong nut crack and six nut picks, all enclosed in a neat box, as shown in the illustration. Both the nut crack and the nut picks are NICKEL-PLATED. The material used in the manufacture of both of these articles is the finest steel. The handles of the nut picks are made in a pretty design, while the points are highly polished. The nut crack is of a design corresponding to the nut picks and is made for good strong service. This complete set given to all who send us 50c. for our paper one year and 10c. additional if they claim this premium when subscribing. Send 60c. for paper and complete set. Sent prepaid.

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**Green's Fruit Grower, ROCHESTER, N. Y.**



**POTASH**

**Potash as Necessary as Rain**

The quality and quantity of the crops depend on a sufficiency of

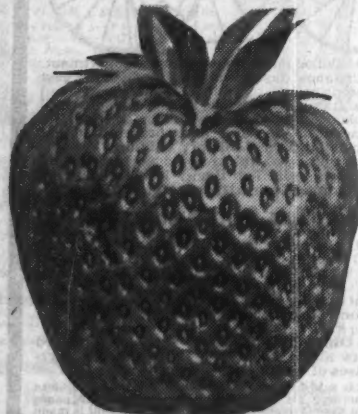
## Potash

In the soil. Fertilizers which are low in Potash will never produce satisfactory results.

Every farmer should be familiar with the proper proportions of ingredients that go to make the best fertilizers for every kind of crop. We have published a series of books containing the latest researches on this all-important subject, which we will send free if you ask. Write now while you think of it to the

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## FREE—Great Crops of STRAWBERRIES AND HOW TO GROW THEM



The **BOOK** that is worth its weight in **Gold** because it tells how **Big Crops of Fancy Berries** can be grown every year and how to market them at a **Big Profit**. It contains the **Latest Discoveries in Plant Breeding** and has 110 beautiful engravings of berries and berry fields, showing **Actual Results** obtained by progressive growers. It tells how to **Start a Profitable Berry Farm** with a small capital. It is invaluable to the experienced fruit grower and gives **Plain Instructions** for the beginner. Don't order your plants until you **Read This Book**. It is **Free**. Send your address to the

**R. M. Kellogg Co., Box 360, Three Rivers, Mich.**



**Successful Church Entertainment.**

This was originated by the editor of Green's Fruit Grower for his own church at Rochester, N. Y., where it was successfully presented by members of the church. The entertainment was greeted with a crowded house and a large sum of money was realized as profit.

It is called the Peace Congress of the Nations of the World, and is intended to represent the gathering together of the heads of the nations of earth at the Hague, Holland, which occurred about five years ago.

The President of the United States is represented as welcoming to this country the rulers of every known nation who, appearing one at a time, take their places upon the stage, and finally each potentate makes his speech upon the question of the ending of all wars and the reigning of peace on earth.

Full details for its reproduction and the speech of each person will be sent postpaid on receipt of 25 cents. Address, Green's Fruit Grower, Rochester, N. Y.

## Our Orchard Department.

### J. H. HALE ON ORCHARDING.

The subject of fertilizers for orchards was discussed at the Kansas meeting, the opening being by J. H. Hale. Mr. Hale said that the production of fruit is a manufacturing process, and one must study his soil to see what it needs. In the east he has found that chemical fertilizers are better than barnyard manure for orchards and fruit gardens. Nitrogen is the most expensive element of soil fertility, if it is to be bought, but he grows leguminous crops and gets this expensive element from the air. Mr. Hale said that growers in the east had found that home-mixed fertilizers are less expensive than the ready-mixed article. For strawberries, he said he would plow under a good crop of cow peas to furnish the nitrogen; then he would add from 1,200 to 1,500 pounds of ground bone and 800 pounds of potash per acre. On the stony hillside there is usually enough potash in the soil.

Mr. Hale was asked when he sprays to prevent leaf curl of the peach. He said he used to spray just before growth started in spring, using Bordeaux mixture. Now, however, in spraying for San Jose scale in Georgia, he has found that spraying with the lime-salt-sulphur mixture controls the leaf curl perfectly.

In answer to a question, Mr. Hale said they had a large plant for preparing the lime-salt-sulphur mixture, but on the basis of one barrel the method is as follows: Fill a barrel about one-third full of water; boil the water by using a steam pipe, then add twenty pounds of lime; the slaking of the lime and the boiling of the water will generate intense heat, and then fifteen pounds of flowers of sulphur should be added. Boil for about twenty minutes, and then fill the barrel with water and bring to a boil again. Nothing has been said about the salt, for it is really not needed to make the insecticide effective. It is added to the mixture to make it stick to the trees better. He uses only ten pounds of salt to the barrel of mixture.

Mr. Hale was asked if he ever used salt as a fertilizer. "What for?" he replied. "Salt is often used for asparagus, but not as a fertilizer. It simply kills the weeds without hurting the asparagus and is the only reason I know for using salt for asparagus."

In reply to a question, Mr. Hale said he applied wood ashes—in fact all kinds of fertilizers—broadcast and cultivates into the soil.

### A HOME SUPPLY OF FRUIT.

Editor of Green's Fruit Grower: A good way to help the housewife on the farm is to set out a good supply of fruit trees, apple, peach, pear, plum and quince, also a good supply of small fruits such as strawberries, raspberries, blackberries, currants and grapes. Plant so as to have a succession of fruit throughout the season. Country people should have fruits upon the table every day of the year. Whether you should plant five or ten acres of orchard is another question. There is no doubt of the fact that you should plant a supply of various fruits for yourself and your family. If you have any surplus of the small and large fruits they can readily be sold, and you can in this way interest your children in a new way of making money. If you have a good supply of fruits it helps the housewife since it relieves her of the necessity of making pies and puddings. An ample supply of fruit upon the table also makes the husband and other members of the family better natured, and better contented with themselves and their home.—Grills Grather, Mo.

### THE APPLE.

The first fruit, both in importance and general culture, is the apple. No fruit is more in demand, more universally liked or more generally used says 20th Century Farmer. The earlier varieties ripen about the last of June, and the later sorts can be kept until that season. It is a fruit in perfection the entire year. Make a judicious selection of summer, autumn and winter sorts and a constant succession can be had the whole year. Its uses are many and of inestimable value. It has been said that "fruit is nature's own remedy." It is certainly nature's own preventive, for the history of exploration, colonization and war show that many diseases come soon after the supply of fruit or vegetable diet is exhausted. Many diseases are not known to free users of a fruit or vegetable diet. There is no farm crop

which, on the average, will produce one-fourth as much income per acre as will a good apple orchard.

### MAKING FRUITFUL ACRES.

By Prof. George T. Powell in "Four-Track News."

The value of apple culture is going to be thoroughly proven! While the average money received from an acre of apple trees will not exceed seventy-five dollars, under modern methods of high culture, proper fertilizing and spraying of the trees to destroy insects and fungus diseases a yield of \$200 to \$300 per acre is obtained on many farms, while there are well known instances where \$700 has been received for an acre of Baldwin apples. This has been done in Orleans County in Western New York.

In Wayne County, in the spring of 1899, a farmer purchased for \$5,000 a farm containing thirty acres of apple orchards which had long been neglected. He pruned the orchard immediately after purchasing the farm, gave it good cultivation, sprayed the trees, and on October first of the same year, sold the apple crop for \$6,000. At Yorktown Heights, in Westchester County, a farmer planted thirteen acres to peach trees in 1897. In 1900 he sold \$1,500 worth of peaches, while in 1901 the yield brought \$5,100 and, after deducting \$1,100 for expenses in the cultivation of the crop, and hiring teams to draw off the fruit, he put \$4,000 in the bank, making an average of \$300 as net profit per acre. This yield can be increased largely by growing especially fancy fruit.

At the school farm during the present year, one-quarter acre of strawberries sold for \$190. This was done under the conditions of teaching, which are not the most favorable for profits in business, for it is not difficult to realize from \$800 to \$1,000 per acre for fine strawberries.

The field for the development of a higher type of agriculture and horticulture is a very great one in our country. The tendency has been to work over too large areas, doing only crude work. Our school teaches the value of the small farm under high culture, and in this direction there is a very great field for development.

### PRUNING THE APPLE.

In pruning the apple attention must be given not only to the height and formation of the head, but to the removal of wood as well says "Home and Farm." The apple bears its fruit on spurs which are themselves developed from wood one year or more of age. For that reason the removal of wood which carries fruit spurs reduces the crop the tree is capable of bearing. This, then, is a practical way of thinning the fruit. Besides accomplishing this result, pruning can be used to lessen the annual growth and force the energy of the plant, which would naturally be used in making wood into the fruit, thus increasing its size or enabling the tree to carry a larger quantity than would be possible were a normal wood growth permitted. Modern orchardists have come to look upon the low-headed trees as more desirable than those headed high. A head which is two and one-half to three feet from the ground is at present considered more desirable than one which is six feet or more from the ground. The latter height was formerly frequently used. In forming the head care should be taken to have the framework branches disposed at different heights along the body of the tree—say, from three to six inches apart, and distributed as evenly as possible around the body as a central axis. For an apple tree three branches are considered the ideal number. These three main framework branches upon the ordinary first-class nursery tree should not be more than ten or twelve inches in length. At the close of the first season's growth after planting each one of these three framework branches should be considered as though it were a separate nursery tree, and, if possible, three subdivisions of this should be maintained for the wood supply of the second year, the three branches retained being cut back to about the same length as those originally held by the tree as planted in the first place. This operation should be repeated each succeeding year.

Be sure and adopt uniform apple boxes. Why not adopt in this country our two sizes? They will fit all cases and all apples, and prevent confusion in the trade. If you grow apples by the car

## RHEUMATISM Cured

Through the Foot-Pores

Nature's Method of Expelling Impurities. Don't Take Medicine. Thousands Are Being Cured by New External Remedy Which All Can

**TRY FREE-PAY WHEN SATISFIED**

We want every reader of Green's Fruit Grower who has rheumatism to send us his or her name to-day. We will send each by return mail a pair of the new Magic Foot Drafts which have excited so much comment by their remarkable cures in Michigan and other rheumatic States. Try them. If you are satisfied with the comfort they give you send us One Dollar. If not, they cost you nothing. You decide.



Magic Foot Drafts cure by drawing out and absorbing the acid poisons in the blood through the foot-pores, which are the largest in the body. They cure rheumatism in every part of the body—to stay cured—because they purify the blood. At the same time they impart to the blood certain neutralizing agents which hasten the cure. It must be evident to you that we couldn't afford to send a dollar pair of Drafts on Approval if they didn't cure. Write to-day to Magic Foot Draft Co., 479 Oliver Bldg., Jackson, Mich., for a trial pair of Drafts on approval. We send also a valuable booklet (in colors) on Rheumatism.

Please mention Green's Fruit Grower.

## Handsome Cafe-Observation Cars between Rochester and Pittsburg.

The Buffalo, Rochester & Pittsburgh Ry. is now operating elegantly appointed cafe-observation cars on their daily trains between Rochester and Pittsburg. These cars are the finest of the kind in use, and, in addition to the handsome parlor observation compartment, fitted with luxurious revolving chairs, they are also provided with dining compartment and smoking room. The trains to which these cars are attached leave Rochester daily except Sunday at 7:30 A. M. Night trains with standard Pullman sleepers leave Rochester for Pittsburg daily at 9:15 P. M. For tickets, reservations, etc., apply to City Ticket Office, 11 Exchange St., or West Avenue Station, Rochester.

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# GIFTS





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ROCHESTER, N. Y., APRIL, 1906.



## EDITORIAL

The modern miracle, Irrigation.

Where duty calls virtue follows.

A lost art, hardening copper to make edged tools.

God made farms for man, therefore stick to them.

That a man changes his mind may be evidence of growth.

The brow with a look of scorn does not win friends or patrons.

Do not punish your child in the presence of his companions.

Procrastination is a thief who is encouraged in many homes.

Meekness, charity and love, three sisters twined in each others arms.

Honest work in which you are deeply interested is the best inheritance.

Everything comes to those who wait, if they keep heads and hands busy.

You can add interest to conversation by listening as well as by talking.

What is the meaning of that sigh? Is it caused by love, a bad investment or over-eating?

A lot of water power has gone to waste over Niagara Falls during the past 100,000 years.

This is a prosperous age. Our grandfathers would have different views if they were living to-day.

There is room for the old horse yet, said the farmer after Old Bill had pulled out of the mud a big automobile.

Look not for happiness in the mountains nor the plains, neither north nor south, except contentment abide there.

Ingratitude.—A man growling at rough handling, by men who saved him from drowning, by pulling him out of a hole in the ice.

An early trust in beef.—Hannibal leading into a trot in mountain valley, 2,000 live beavers, with torches fastened to horns, to frighten enemies.

"It pinches," says the man in tight shoes, and the boy whose fingers have been caught in the claws of a lobster. Many people are pinched by buying stocks promising extravagant dividends.

A man worth his millions was born in a log cabin. Now that he has his elegant home and grounds he has a longing for the old log cabin, therefore has built in his yard a log cabin exactly like the one in which he was born. He takes much pride in showing his friends through this log cabin and the many curiosities which it contains.

What is the rich man's burden? There are many burdens peculiar to rich men. It would be difficult to specify them all. One of the greatest burdens is the feeling that his friends and acquaintances are attracted more by the rich man's money than by his social or other attractive qualifications. In fact there is danger that the rich man may consider every one, even his friends and relatives as thieves and burglars. When the rich man arrives at this conclusion his

chances of happiness on earth are slight and slim.

Nitrogen is the most expensive fertilizer and yet there are oceans of nitrogen in the air around us at all times. Since nitrogen as used in agriculture, that is nitrate of soda and guano, are becoming exceedingly scarce and high in price, experimenters have been attempting to make the nitrogen in the air available and have succeeded. But whether this nitrogen from the air will be as helpful to crops as other forms of nitrogen remains to be learned.

Castles.—There is something about the word castle that fascinates the average mind. Many men and women would be proud to own a castle, or to live in one, yet having seen perhaps a thousand castles in my travels around the Rhine in Germany, and elsewhere, I will say that I could not be induced to live in such castles, since when I examine them carefully I see that they are more like prisons than houses. The windows are made narrow, the walls are very thick and there is no evidence of sunshine or cheerfulness about them. Indeed castles were in a certain sense forts. They were built with the idea of protecting the inmates from marauding bands who might attack. Verily kings, queens, princes and princesses of past ages have lived in dwellings far inferior to thousands of people of modest means of the present day. Great improvements have been made in recent years in the construction of houses as regards health, air, light, ventilation and warmth.

Forestry.—The cutting of trees in this country is almost beyond computation. Our railroads use each year 100,000,000 ties, or more than could be grown on 300,000 acres of woodland. The railroads pay for these ties \$60,000,000 each year. But the ties are only one of the causes of destruction of forests. Large quantities of timber are used in building freight and passenger cars, this being the greatest railroad country of the world. Large quantities of timber are used in the manufacture of furniture and still larger quantities in erecting buildings. Much lumber is used each year in building fences, for fence posts, boards, rails and stakes. Thus the timberlands of America are rapidly being cleared and but few new timberlands are being planted. Think of the vast acreage of soft pine which was standing within the lifetime of the present generation but which has now been so completely used that the high grade quality of pine lumber can now scarcely be secured. Our government is giving some attention to forestry but not one hundredth part the attention the subject should receive. Each state, each county, each township should be interested in this important subject. In fact every citizen should feel an interest in planting, preserving and protecting timberlands and woodlands.

Apples by Layers.—It may not be generally known that it is possible to propagate apple trees by layering as grapes and other vines are multiplied. My attention was first called to this on my own place. A limb partly split down from a Baldwin apple tree was left resting upon the ground because of the many apples likely to ripen if not entirely detached from the tree. When an attempt was made two or three years later to remove this limb several branches had rooted. Part of the trees were taken and set out, and now are of bearing size. I now have several dozen rooted layers, but do not consider these trees as hardy as those grown from native stocks are grafted or budded.—Orland Eaton, N. H. It is claimed that trees thus made from inverted branches produce seedless apples, but this may be doubted.—Editor.

Strawberries.—L. J. Farmer of northern New York reports that in one year he made \$1,000 from one acre of strawberries. This is much larger returns than the average strawberry grower can expect. Strawberry growing is a profitable pursuit. It is far more profitable for the man who grows strawberries to supply his local market than for the man who ships his berries by railroad or boat. It is best, however, to expect only moderate profits, then you will not be disappointed.

Grafting.—In reply to an inquiry I will say that all fruit trees after being planted two or three years are, as a rule, grafted when it is desired to change the variety, and seldom or never budded. Usually budding will work only on trees transplanted the previous season and seldom or never on older trees.

Poor Fruit Spoils the Market.—Green's Fruit Grower will continue to

preach against the sale of inferior fruit, which means not only fruit that presents an uninviting appearance, but also refers to fine appearing fruit that lacks quality. The sale of such fruit lessens the demand for really good fruit. The selfish man thinks that he does not care whether he creates a demand for fruit or not so long as he sells his own poor product, but this selfish man is biting off his own nose in selling poor fruit whether he knows it or not. I am fond of fruits of all kinds and eat many oranges. Often it is impossible to get oranges of good quality. Many times both California and Florida oranges are frost bitten and thoroughly worthless, and yet car loads of this inferior fruit are sent north and east and sold for good fruit. When I buy these oranges I am disgusted and give up orange eating for the season. This year we happened to find a dealer who has supplied us with the best naval oranges I have ever eaten; the fruit is heavy, solid, juicy and fresh, whereas at other times it has been pithy, lacking in juice and without quality. So long as I can get these superior oranges I will continue to eat them. Can you not see by this experience that the sale of good fruits increases consumption, and that the sale of poor fruits kills consumption and stops further sales?

Cement in the construction of building walls, walks, stable floors, etc., is coming into general use. This is something new. A few years ago but little was heard or known of cement. Cements were used by the Romans thousands of years ago with which they made artificial stone, but the secret of this composition has been lost. Portland cement is now made in large quantities in various parts of this country, and the price is now lower than it ever was before. Of this cement artificial stone blocks are made with air spaces so that houses of this material can be plastered directly on the stone on the inside without studding or lathing, thus making a house of cement blocks nearly as cheap as it can be made of wood. No one should think now of making stable floors of plank. The floors of stables should be made of cement. They are many times more durable than any kind of wood. I have such a cement floor in my new horse stable. Horses are liable to slip on such cement floors therefore they must be corrugated or otherwise roughened. In the stalls where my horses stand I have a cheap plank floor over the cement floor.

Orchards in a Desert.—If you were to travel for a day in a railroad car through a desert you would consider the desert the most uninviting place in the world for starting an orchard, and yet some of the most promising, thrifty orchards of the world are now located on the deserts of the great west. These desert lands have not known water for hundreds of years. The sand is loose and pliable under the foot. No grass or other plant or shrub grows except the sage brush so called, and this but sparsely. But of late years the mountain streams have been turned onto the desert lands. Orchardists have planted trees of apples, plum and cherry and these trees have made growths such as is unknown in many parts of the country. Truly this is a wonderful age.

Irrigation.—Will eastern farmers ever irrigate their land? I ask this question having before me a photograph of a potato field at Greeley, Colo., with a little stream of water running between the rows in a large field. By means of this irrigation they grow crops of potatoes unheard of in the east, and potatoes are of monstrous size. The photograph before me shows potatoes nearly as large as a man can lift. This seems impossible but if photographs tell true stories there can be no mistake. Many eastern farmers have lakes and streams and lands lying at levels that might be easily irrigated, but they make no use of this great source of revenue. I do not think that irrigation would work on clay land, as it would cause the soil to bake and harden. I hear little about irrigation in New York State.

The Farm Roller.—This farm tool is not fully appreciated. The farmer has many implements for scratching up the soil, but there is no tool that pulverizes the soil as does the roller. In one turn around a ten acre field a roller will crush millions of lumps of earth, thus making a fine seed bed. It is usually a mistake to roll the crop after it is sown, since the soil should be left as loose as possible after planting or seeding most crops. But in the preparation of the seed bed a roller on most soils is indispensable.

Mr. Aldrich of Conn. asks Green's Fruit Grower about fertilizers for grapes: In reply I will say that I should call for just what the letter mentions, potash, phosphoric acid and nitrogen. I cannot tell you how much of this fertilizer your vines will require for I do not know the texture of your soil nor its condition or fertility. Good rich soil such as would produce good corn and wheat would not need a fertilizer, but impoverished or sandy soil might need it in varying quantities according to its fertility. Half a ton per acre would be considered a heavy dressing, 500 pounds per acre would be a light dressing. It could be sown broadcast in the vineyard, or spread about each vine, from one to 4 quarts per vine.

All One Kind.—You might say to an artist, this is an age of specialties therefore devote yourself to a specialty. Devote yourself to painting trees. Paint nothing but trees. If the artist followed this advice he would fail for while trees are good he must paint also grass, flowers, clouds, sunshine and the shade. Or, you might say to a housekeeper, make a specialty of cooking. Learn how to make chicken pie then make nothing but chicken pie. How long would this housekeeper continue to please if she followed such advice as this? No, she must cater to various tastes; she must make bread and sauce, and must have vegetables.

Many readers of my paper take numerous magazines but there are many who take no other publication but Green's Fruit Grower. It seems to me that the ideal publication, no matter what it is, is one that appeals to a certain degree to many members of the family. One reason why I think I am right is that my paper has the largest circulation of any horticultural paper ever published in this country or any other. I am confident that I would not have the present circulation if I had devoted the paper entirely to Fruit Growing.

Dumb creatures, says Mrs. James Atkinson in her essay on poultry keeping, are much like the human family. Dumb creatures love kindness. We all know how quickly the horse, cow, sheep, hen or other domestic animal responds to kind words and kind treatment. Many farmers are to-day suffering for the necessities of life through lack of care and kindness for their dumb animals. God has given us this beautiful world to live in, and these dumb animals to rule over. Are we faithful stewards? I fear that many are not.

Value of Stable Manure.—In reply to a subscriber of Green's Fruit Grower I will say that most clay loams have considerable fertility, but portions of it may not be available. Sandy soils are much more likely to lack the elements of fertility. Clover and other similar crops add to fertility by encouraging bacteria in the soil that gather nitrogen from the air. Barnyard manure adds humus to the soil and encourages bacterial growth, thus adding nitrogen. Were this not the fact we could not understand how so little a dressing of manure evenly spread over the surface adds so greatly to growing crops.

A freak apple tree is reported from Ohio which bears one kind of apple one year and another the next year. Green's Fruit Grower thinks this apparent freak is simply owing to attacks of fungus. I have seen apple trees that one year would bear Northern Spy apples nearly as large as a child's head, and the next year be loaded down with apples no larger than a black walnut, owing to attacks of apple scab which might have been prevented by timely spraying.

Cold Farmers.—Yesterday the thermometer was at zero yet I saw a farmer's wife and her son starting home from the city on a twelve-mile drive, not warmly clad, and with their laps covered simply with a horse blanket. Farmers' wives are confined to the house and are not accustomed to exposure like this, therefore such a cold ride is liable to cause an attack of pneumonia. This reminds me of my experience as a boy on the farm when my mother and father and myself would often ride to the city, twelve miles distant, with a buffalo robe over our laps, and nothing under the seat to prevent the cold wind from blowing in from behind the seat. It did not seem to occur to us that we needed protection from the back part of our feet and legs as well as from the front part.

It pays people to make themselves comfortable, particularly on a long journey. I recently bought a calfskin coat for one of my men who is on the road much of the time during cold winter weather. He was so well pleased with it he induced his brother to buy a similar coat which cost only \$20.00.





### Influence of Proper Training.

Written for Green's Fruit Grower by Mary Louise Standiford.

How many mothers are there who know and strictly pay attention, to the culture and education of their offspring? How many parents spend hours attending the clubs also other social gatherings, etc., while the children are neglected at the most important time of their lives; for instance a family including four children, viz.: Harvey, Olive, Helen and John. They are bright, spirited children, "quick to learn," their parents say. Harvey the oldest is so neat and has a good disposition, but he does not seem to care for his books or music, as some of his playmates.

The mother should be strict and make him have a regular time for his school studies also his music lessons and induce him to persevere with his practice each day, at the usual time, so that you will not have to remind him of his work. He will then go cheerfully to his studies and progress in his lessons and get to be a fine musician.

Before a few years glide by, to the surprise of his teachers, he is a prodigy, a "genius" as people call them. It is study and perseverance which makes good industrious children and fine men and women. The second child Olive is a sweet little girl who is rather indolent and does not seem to have any talent for any particular study, only to have a common school education.

She goes to school regularly, is well liked by her teachers and playmates, now to her music she gives her whole heart and practices hours on the piano and finally becomes an accomplished musician and teacher.

Every child has some talent, which can be brought out if they are properly educated. Helen the third child is quiet and unassuming, she does not care for her books or music, and although the parents give her every advantage, she would rather sit for hours in deep thought and listen to others than try to do anything herself.

Her mother said: "What shall I do to get Helen interested in her lessons?" She seems to care for nothing, she will never be as smart as the other children." But little Helen grew up to be one of the most modest and useful women of our day—a nurse in the "Red Cross society," nursing scores of wounded soldiers back to life and health. Now let me advise a mother never to notice and correct your children's faults before strangers. The only way is to study each child's disposition, restrain and humor them to the extent of good common sense, and reprimand them when alone. I have often thought if there could only be a training school for mothers, it would benefit them although every mother of a family is the principal of a training school. Always be truthful and say just exactly what you mean and act accordingly.

**Baked Custard.**—Use the same proportions as for boiled custard; beat the eggs, sugar and salt together to a cream. Stir in the scalded milk, pour into a pudding dish or into cups, grate a little nutmeg over the top; stand it in a pan of hot water and bake in a moderate oven until firm in the center. Test by running a knife into the custard; if it comes out clean it is done, if milky it needs longer cooking.

**Sunday-School.** Teacher: "Can't you bring a little boy to Sunday-school next Sabbath?" Jimmy: "No'm. All de boys up my way is bigger than me."—Chicago Journal.

### Nothing Better—Because it is Best of All.

For over sixty years Mrs. Winslow's Soothing Syrup has been used by mothers for their children while teething. Are you disturbed at night and broken of your rest by a sick child suffering and crying with pain of Cutting Teeth? If so send at once and get a bottle of "Mrs. Winslow's Soothing Syrup" for children teething. Its value is incalculable. It will relieve the poor little sufferer immediately. Depend upon it, mothers, there is no mistake about it. It cures diarrhoea, regulates the stomach and bowels, cures Wind Colic, softens the Gums, reduces inflammation, and gives tone and energy to the whole system. "Mrs. Winslow's Soothing Syrup" for children teething is pleasant to the taste, and is the prescription of one of the oldest and best female physicians and nurses in the United States, and is for sale by all druggists throughout the world. Price, twenty-five cents a bottle. Be sure and ask for "Mrs. Winslow's Soothing Syrup." 1840-1895.

### Health for the Farmers' Wife.

Written for Green's Fruit Grower.

(Continued.)

For dinner eat a baked or boiled potato, one other vegetable carefully prepared, some broiled, roasted or stewed beef, mutton or chicken, or a couple soft boiled eggs. For dessert fruit or some light pudding may be eaten. Vegetable salads are very healthful served with simple dressing. Be careful to chew every mouthful until it becomes a liquid and is swallowed almost involuntarily. After the dinner dishes are washed and put away and the kitchen made tidy, bathe your face and hands in cool water, brush your hair thoroughly and knot it up loosely, put on a fresh wrapper and lie down for an hour or two in a well aired room, or in summer time out of doors in the hammock, with a book or a magazine to while away the time if you do not get to sleep. For supper have fruit, whole wheat biscuit or bread with plenty of butter, or milk toast, a well cooked cereal and a cup of cereal coffee. Salad may be added, but avoid all sweets, although the simplest sponge cake may be indulged in occasionally. If you wish to be well, never under any conditions use fried food of any kind, pork in any form or food containing pork fat, and do not drink tea. It is an astrigent causing constipation and biliousness. If you are accustomed to attacks of bilious headaches, go without one meal, at night, once in three or

### What a Woman Can Do.

Editor Green's Fruit Grower: Six years ago wishing to buy a suit of clothes for my boy I took some eggs and a few fowls and went to market. I sold direct to families. That was the beginning of my peddling. Now I peddle anything that a woman can handle. I buy all the eggs I can get and sell to restaurants and hotels. I buy poultry alive and dress it myself. I have a strawberry bed which I take entire care of. I only spend two days each week in peddling. One day I occupy in picking up my load and getting it ready. The next day I go to market so I have the rest of my time at home. I commence peddling the first of April and finish on Thanksgiving day. During the six summers that I have peddled I have bought my parlor furniture, bought a sewing machine, furniture for my bedroom, and a horse, and have put \$400 in a savings bank. I keep a few hens, put in considerable garden sauce, and it sells like hot cakes. Being a woman I don't have to spend any money for liquor or cigars. I am fifty-six years old—S. D. C., Conn.

**Apricot Custard.**—Strain and make a pulp of one-pint of stewed apricots and mash these through a sieve, adding six ounces of sugar and the juice of half an orange. Cook and stir until thick and then add the whites of four eggs well beaten; pour into a dish, dust with sugar and bake twenty minutes in a hot oven; serve at once with a cream sauce.



### THE LILAC.

Old fashioned things often come back and become all the rage after the lapse of years. This has occurred with the peonia, phlox and many other flowering plants, and has of late occurred with the lilac. For many years the lilac was seldom seen except about farm houses, but now the lilac is used in parks and the most expensive city grounds. Formerly the lilac was simply used as a solitary bush, but now it is used as a hedge and it is planted in beds to fill up corners of the grounds. At one of the large Rochester parks a bed of perhaps 500 lilacs is situated at the upper grade of a bluff and below are several hundred varieties duly labeled. Every season not less than 10,000 people visit these lilacs and admire their beauty and fragrant bloom. No bush is more largely grown and cared for than the lilac. There is no insect that feeds upon its leaves. It is healthy and hardy, and will thrive wherever an elderberry bush will grow. It remains a long time in blossom and is a favorite with everyone. Plant lilacs freely about your home grounds.

four days and take a slight cathartic. This gives the system a chance to clear itself. Before retiring at night, take a friction bath and three times a week a warm bath, with plenty of pure soap. Care must be taken to not get chilled. Drink a glass of hot or cold water, whichever you prefer, the first thing after rising in the morning and just before retiring. During the day keep a glass of water near you and take a swallow very often except half an hour before and after eating. Walk out into the open air as much as possible. Dress very warmly in cold weather, putting on thick warm tights instead of extra skirts. For sleighing have a man's warm fur coat, a warm free stone for your feet and "solid comfort." Skate, slide and romp with the children, feed the hens, the horses or anything to take up your attention out of doors, each day. In case of illness avoid all patent medicines as well as prescriptions of friends and go to some reliable physician. Don't worry over the past, the present or the future. Laugh and enjoy life all you can, and remember that stick-to-itiveness is a thing well worth cultivating; it yields a good crop.

**Chocolate Loaf Cake.**—Melt two squares of chocolate and add to it half a cupful of warm water and one teaspoonful of vanilla extract. Beat together one egg, one cupful of sugar, one tablespoonful of butter, one and one-half cupfuls of flour with two teaspoonfuls of baking-powder. Add the hot chocolate, beat well and bake twenty minutes in a moderate oven.

**Soft Corn Bread.**—Take one cup of corn-meal, one cup sour milk, a salt-spoon of soda, half a pint of sweet milk, a tablespoonful melted butter, a pinch of salt and two well beaten eggs. Bake in a deep earthen dish for an hour.

**Tomato Soup.**—Peel and slice one pound of tomatoes. Slice an onion and boil it with tomatoes in good meat stock for an hour. Add salt and pepper. Mix half a pint of milk with a teaspoonful of flour. Add this to the soup. Stir and boil for five minutes. Strain and serve.

**Thin Corn Bread.**—Put a cup of corn-meal into a bowl with quarter of a teaspoonful of salt, a teaspoonful of sugar and a spoonful of butter. Pour one and one-half cupfuls of boiling water over the meal, beating rapidly. When smooth spread very thin on buttered tins and bake slowly for half an hour.

**Chicken Pie.**—Two chickens dressed, disjointed and boned until tender. Season with pepper and salt, remove the larger bones and place the remainder in a deep dish, the sides of which have been lined with a thin crust. Thicken the gravy and put in what is needed, reserving the rest to send to table with the pie. Put on top crust, in which you have cut holes to allow steam to escape. This will bake in one hour.

**Orange Layer Cake.**—Beat to a cream one cupful of butter, two cupfuls of sugar and three eggs; add one cupful of milk, and stir it well through the other ingredients; then add four cups of sifted flour, in which three teaspoonfuls of baking powder have been sifted. Stir the flour in gradually and bake the cake in layers. Grate two oranges, beat the whites of two eggs to a stiff froth, stir in one and one-half cupfuls of pulverized sugar, squeeze in the juice and pulp of the oranges and the grated rind and use this as a filling between the layers of the cake. A soft frosting may be spread over the surface, but the cake is complete without it.

**Fruit as a Beautifier.**—"Fruit is a great beautifier, if women would only believe it," said an old physician to a young woman who had consulted him in a state of great anxiety over her complexion. "Fruit, especially fruits like oranges, grapefruits, grapes and apples, go far toward clearing the skin and preserving that indescribable look of youth which, on analysis, is found to consist in bright eyes, living hair and a fresh vital complexion. After all, it is the sagging muscle, the tired eyes, the hint of exhaustion and fatigue about the skin and hair that in so many women produce the impression of past youth. To be able to dissipate and banish that impression is worth a great deal to the woman in society and the woman in business, and it is worth making great sacrifices for. One sacrifice in particular, that I would recommend, is the substitution of fruit for frozen desserts and for the hundred and one nice, but naughty, things in the pastry line that women are so fond of. Try eating fruit between meals when you want to nibble at something. Eat fruit always for breakfast. Take hot lemonade, without much sugar, two or three mornings a week, and see if these blotches don't fade away as if by magic."—Rural World.

Too many men never praise their wives until they bury them.

The easiest way for a man to pack a trunk is to get his wife to do it.

There are men who go to a gymnasium for exercise while their wives are sawing the wood.

There is many a wife hungering for an occasional word of approval who will be buried in a rosewood casket.

If men were as ungallant during courtship as they are after marriage, it is doubtful if more than one in ten thousand could ever get a wife.

Why is it that it tires some men more to do a little errand for a weary wife than it does to walk around a billiard table for four hours?

Generally when a man feels the need of economy he thinks it ought to begin with his wife.—Journal of Agriculture.

It is a pleasure to deal with some clerks. Often a customer will go out of his way just to trade at the store where a clerk has been particularly pleasant and courteous. This same trade compelling courtesy and politeness can be injected into a firm's correspondence by pleasantly acknowledging orders, arranging complaints and occasionally inquiring among customers if anything can be accomplished for them by the house. It is better to be over attentive to customers' wants rather than not attentive enough. A correspondence department of a business which is not attentive is a blight upon the business.

**Wine Quart or Dry Quart.**—Green's Fruit Grower: Is the wine quart or the dry quart used mostly in the sale of berries? I enjoy the Fruit Grower.—George W. Frits.

Reply: The dry quart is used for measuring berries. A dry quart is 67-1-5 cubic inches. A liquid quart is 57-3-4 cubic inches.

**Oven Cakes.**—Try this recipe for breakfast: Three cups sour milk, one-half teaspoonful saleratus, enough buckwheat flour to make thick batter, bake thin, three-eighths of an inch, in hot oven. If done right will be light and dry. Better than soggy pancakes.—Subscriber of G. F. G.

A clean and cheerful house makes a happy home.



## EDITORIAL COMMENT.

Ingratitude is a fruit unconscious of the planter's care.

She was annointed with sympathy, hence was welcome.

"Love laughs at locksmiths," then weeps over her unwise choice of a husband.

"Wizard winter's spell is broken," said the early robin, struggling with his first worm.

Fortune follows the footsteps of pluck, industry, determination, frugality and enterprise.

Death is a great ocean, resistless, pitiless, unfathomed. Its waves engulf all that have been blest with life.

I had rather be in an orchard full of bloom and song-birds, or full of fruits and fragrance, than in a sculptured palace.

Russell Sage says that men continue to make money after they have more than they need simply to show how smart they are.

"Is married life a failure?" "Not always," says Jones. "My wife can beat me building the kitchen fire on cold wintry mornings."

That the old fashioned love sentiment between men and maidens is not dying out is shown by the increasing number of valentines mailed the past February.

"Good morning," said the Crocus on awakening in March after a long winter's sleep, but there was no other flower to respond, so she closed her eyes and took another nap.

Don't believe that the young woman who is at work in office or factory is satisfied with such a career. No, she is dreaming of a home of her own, with husband, flowers and other household pets.

I do not wish to discourage the making of money, but when the end comes, and we are looking upon the world for the last time, it may be better for us that we have done one act of kindness, than that we should have gathered together one-hundred million dollars.

A machine has been invented by an Italian for chiseling marble, granite and other stones. This is a marvelous invention which enables the operator to outline rapidly the figure of a man, or any figure the architect may desire to cut in stone, following any model. The machine costs \$1,500. It reduces the price of stone engraving from pounds to shillings.

Not a Good God.—Grandmother was a little harsh in her judgments of other people. She remarked in the presence of her grandson that she wished all bad people could be destroyed quickly by accident, or otherwise. Her grandson took exception to this statement and replied, "Grandma if you were God I don't think you would make a very good God, if you acted as you think."

A Boston lady insect collector passing a hotel where the guests on the piazza were greatly annoyed by millions of lake flies, inquired innocently if she might have permission to capture one as a specimen. On gaining permission she was so interested in the fly she inquired whether it would be asking too much if she might carry away two more. This, in connection with the fact that the flies were being swept up by the bushel from the various piazzas and sidewalks seemed very amusing.

Lonesome Cow.—We have been building a fine new brick barn at our Rochester place, costing several thousand dollars. This barn is a palace among barns, a place in which a family might live with comfort. When we moved our horses and cow into this new barn we thought they would be pleased with the change. Imagine our disappointment when we found that our cow, which is a great pet, was very much dissatisfied with her new residence. She seemed to long for the old, dark, cobwebbed and ill smelling stable which she had occupied for so many years, and expressed her grief by loud bellowings and other indications of ill content. It was several weeks after her removal before she became entirely satisfied with her palatial abode.

Money.—If all the money in the world were equally divided how long would it remain so? We are told that three day

laborers found a gold mine, which on being sold yielded each a profit of \$100,000 in cash. On receiving this money from the sale of the mine these men started out to enjoy themselves. One of them had long wanted a watch. He immediately bought five expensive watches and chains. After drinking heavily he returned to the hotel and the clerk, who had put four of the gold watches in the safe, called the men's attention to the fact that his watch chain was hanging down and that his watch was missing. Somebody had stolen it. He asked for another watch, but fumbled it and dropped it upon the stone floor. Then he took another one which probably did not last him very long. In less than six months neither of these men had any money left.

Money from Inventions.—The editor of Green's Fruit Grower has ever had an idea that he would some time invent something that would bring considerable revenue. He has worked out several devices and spent considerable money on them, but has never yet received any profit from this source. It is likely that many of our readers have had similar hopes in regard to inventions. I caution such readers not to place much dependence upon getting money out of such schemes. But few great inventions are the work of one man. The telephone, telegraph, the sewing machine, the reaper, in fact nearly all the great inventions were the combined work of hundreds of skilled inventors. The man who worked most successfully on each of these inventions at the last was the one who secured the great reward. There are numerous great inventions that have been lost to the world through the death of the inventor just at the time when the new wonder was to be launched. The tax upon the vital forces of the inventor is so great he is often near death's door when he perfects his invention.

Good Homes.—If I had a large surplus of money, I would buy a tract of land near a large city, embracing several hundred acres, well located for comfortable homes. I would divide this land into tracts of one acre each, laying out streets, planting shade trees along these streets, putting in sewers and connecting these homes with the city by an electric railroad. I would aim to have a piece of woodland with this village which I would make into a park with attractive drives. I would have a free supply of pure water. I would build there a church and a school. I would attempt to sell these acre lots to people of moderate means at a very low price, a price that would leave no profit on the transaction, a price that would tempt many people to move into this suburban village and live a wholesome, rural life. For those people who could not afford to build houses upon these lots, I would build, and sell the houses to them at cost or less than cost. Those who were able to pay a small price for these homes, I would give long periods of payment, without interest. I would have no saloons there. I would have a hospital and a relief committee. I have long thought that a suburban village of this kind could be made a great success and would be the source of much good.

Improving Cemetery.—I. M. Moore asks Green's Fruit Grower about improving a small cemetery containing about two acres, which is now covered with sedge grass and briars. It is desired to seed down the plot and keep it largely in lawn.

My reply is that the brush or wild shrubbery should be grubbed out and the soil carefully plowed and cultivated for one season. It would not be possible immediately after plowing the sod to level it down and make a good seed bed for the new turf that is desired. If the plowing is done very early possibly the sod would be rotted and the ground leveled by cultivation, so that in August or September the plot could be sowed down successfully. I would advise using the ordinary lawn grass which is composed largely of Kentucky blue grass and white clover. Such cemeteries can be greatly improved by planting the borders with shrubs and trees combined, and by planting groups of shrubs judiciously at appropriate points in the interior. The west side could be planted to evergreens which would make the cemetery more cheerful in winter and would shelter the grounds from winds at all seasons. The improving of cemeteries is a praiseworthy undertaking, but is something that is usually neglected altogether.

Low Headed Trees.—I wish to call attention occasionally to low headed trees. I have spoken of this question before, and will doubtless call attention to it again, since I wish to keep the question before the readers of Green's Fruit

Grower lest they forget it. I believe the orchards of the future are to be made of low headed trees. Low headed trees are much less affected by storms of wind in the fall which sweep off tons of apples every year. Fruit may be gathered more easily from low headed trees and the trees may be more easily sprayed and pruned. There are many advantages in having low headed trees.

Old Trees for Vines.—If there is a tree upon your place which you have decided after great deliberation you wish to dig out for one reason or another, why not cut the bark off around the stump in a narrow strip, thus killing the tree, and then plant a strong growing grape vine, or some ornamental vines near the trunk of this tree to climb up over the branches making it an object of great beauty.

Rotation for Fruits.—Farmers know that rotation is necessary for growing various kinds of farm crops, but fruit growers have not yet fully realized that it is equally necessary for rotations in fruit growing. I am often asked whether it is well to replace an old dead apple tree with a young apple tree planted on the same spot. An apple tree might succeed on the same spot if the ground was well fertilized, but it certainly would succeed much better in another spot where an apple tree had not been growing for many years previous. If I were to select a site for an apple orchard I would not select land that had been occupied for the past thirty, forty or fifty years by apple trees, neither would I select a site for a peach orchard that recently had been occupied by peach trees.

The Value of an Orchard.—The question is often asked "what is an apple orchard worth?" Or, "what is an acre of bearing apple orchard worth?" George T. Powell estimates that our best orchards bear interest on a valuation of \$1,200 to \$1,500 per acre, which at 6 per cent. would be from \$70 to \$90 per acre. It is conceded that there is no way in which an acre of land can be made so profitable as by planting upon it an apple orchard. B. J. Case says in the Rural New Yorker that a good bearing orchard could be sold in Wayne County from \$100 to \$500 per acre, according to its condition, location and nearness to railroad station. The value of farms in his locality varies according to the size of the apple orchards. Another Western New York man paid \$150 per acre for a five-acre orchard. At the end of fifteen years it had paid back the purchase money with interest at 7 per cent., a new fence, all taxes, all labor, fertilizers, etc., and left \$150 besides the orchard which had been a good source of income for twenty-five years. It is now worth \$2,500. He considers \$500 per acre a fair valuation for a good bearing apple orchard.

## OUR \$100 PRIZE.

Readers of Green's Fruit Grower have probably noticed our offer to pay \$100 in gold for the best story, poem, essay or other clipping from magazine or newspaper. This contest will close June 1st, therefore if you wish to enter that contest do not delay. This clipping need not be very long, indeed the shorter it is the better we will be pleased with it. Our intention is to ask for the photograph of the winner of this prize which we propose to publish with the winning article or clipping which this subscriber has sent us. The conditions are that 30 cents shall be sent with each clipping to pay for Green's Fruit Grower one year without premium and that the name of the magazine or paper from which the clipping was taken shall be given.

## WEIGH YOUR EXPRESS PACKAGES.

If you receive a package by express always weigh it and learn if it weighs as marked on the tag. You should take particular pains to do this weighing if the express charge seems much higher than it should be. I have just received a package by express marked on the back of the tag "Weight 40 pounds, express charge \$1." I weighed the package and found that it weighed only 25 pounds. On this evidence the express company reduced the charge to 50 cents. There are many mistakes like this made by express companies and so far I have found that the mistakes are always in favor of the express company, which leads me to suspect that the express companies make large profits by overcharging those who receive goods over their lines. I have shipped the same package at different times to the same place and sometimes have found the charges double what they were at other times. Express companies are a great convenience but those using them should be careful that they are not imposed upon.

Good names are gained by exemplary deeds.

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More gardens and farms are planted to Salzer's Seeds than any other in America. There is reason for this. We own and operate over 4000 acres for the production of our warranted seeds. That you may try them, we make you the following remarkable offer:

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Above seven packages contain sufficient seed to grow 10,000 plants, furnishing bushels of brilliant flowers and lots and lots of choice vegetables, together with our great catalog telling all about Flowers, Beans, Small Fruits, etc., all for 16c in stamps and this notice.  
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A book of seeds, plants, fruits worth dollars sent free. Send 10c for 3 packets of Wonderful—Delicious Tomato, Alpine Lettuce, Omega Cabbage, Van Wageningen, Seedman, Fulton, N.Y.

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of the best new and standard Strawberry, Blackberry, Red and Black Raspberry plants, also Grape Vines. The best lot of plants we ever saw. We guarantee them true to name, Healthy, and extra well rooted. Our prices are as low as good plants can be grown for. Send right now for our 15th annual price list. It's free. A. R. WESTON & CO., R. F. D. No. 3, Bridgman, Mich.

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**Eve Did It.**—When Adam was charged with eating the forbidden fruit he laid the blame on Eve, claiming that Eve urged him to eat the fruit. Since Adam's time women have been charged with being the source of much trouble and crime. It appears now that J. T. Cordova, the absconding pastor, who recently eloped the second time with a beautiful girl who sang in his choir, was not himself to blame, but that his wife was the source of the trouble. He says that he tried hard to induce his wife to love him but that she would not, hence his elopement. How could it be possible that this wife should not love such a man as this clergyman has proved himself to be? If she could not have forced herself to love him in any other way she should have called in the police for assistance. But seriously speaking, how often the innocent person, the one who suffers, is charged by the scoundrel or the delinquent as the one person above all others responsible for injuries, or crimes committed. If a man imposes upon you in a dishonest business deal, taking advantage of your confidence in him, and abusing it shamefully, you may expect to hear this man exclaim, "You are yourself to blame."

**A \$10,000 Bill.**—The United States government issued a number of \$10,000 bills, the largest ever issued in this country. For some unknown reason all of these \$10,000 bills have been redeemed but one. Our government is looking for this \$10,000 bill desiring to redeem that also. If any of the subscribers of Green's Fruit Grower have in their pocketbooks this \$10,000 bill please communicate with the treasury department at Washington. The moment the government treasurer redeems your \$10,000 bill will you kindly send 50 cents of it to Green's Fruit Grower, Rochester, N. Y., to renew your subscription, providing you have not already renewed. We speak of this now since the time is slipping away and you will soon be busy pruning, planting, plowing and sowing. While the publisher of Green's Fruit Grower is not the owner of this \$10,000 treasury note he has during the year many bills large enough to require several \$10,000 treasury notes in the payment, therefore, he needs the renewal of every subscriber. Will you kindly favor us with a prompt response?

**Winter Banana Apple.**—We have had trees of this variety upon our place for over twenty years and find it of superior quality, of average size, free from defects. The fruit when ripe, about mid-winter, is of a golden hue and presents a fine appearance. I have claimed that it was better in quality than Swaar, but this has been disputed by many. Professor H. E. Van Deman however, agrees with me that it is better than Swaar. Tree is remarkably vigorous and healthy but the roots seem more susceptible to the crown gall than other varieties. It is an apple worthy of attention of every lover of good fruit.

**American Blush Apple.**—Scions of this apple came to us from James Norton, a valued friend and patron then living at Farmer village, Cayuga county, N. Y. He said the variety was well known in his locality and that it resembled Hubbardston but that it was entirely distinct from Hubbardston. We have been propagating it for many years. It resembles Hubbardston in appearance, in flavor and in growth of tree. It seems to be a better keeper than Hubbardston. Specimens sent to United States pomological department one year were accepted as correctly named and not identical with Hubbardston, but more recently the United States department has declared that it is the same as Hubbardston. This is all we know about it.

**Oak or Strawberry.**—If I plant one kind of seed in my garden I may reap a luscious strawberry. If I plant another seed in the same garden I will secure an oak tree, the life of which may be perpetuated for hundreds of years. The same soil nourishes these two seeds, the same rain, the same sunshine. How is it that this garden soil in one instance produces the remarkable strawberry and in the other the noble oaks? No one can explain this phenomenon. We see springing from the earth a vast multitude of plants, shrubs and trees, each different from the other and yet all nurtured by the same elements. Surely there is plenty of food for thought to him who walks about with inquiring mind.

**Rheumatism seems to be practically unknown in Japan.** A French observer attributes this to the sobriety of the people, their vegetarian diet and their great use of water. They not only drink large quantities of pure water, but take two or three baths daily throughout the year.

# OUR PREMIUM OFFERS

We name below some Premium Offers that will please you. Many of the subscriptions to Green's Fruit Grower expire with November or December issues. Please send your renewals NOW. DO IT NOW, taking advantage of one of these offers, and we will extend your subscription ONE YEAR. We make few offers, but make these exceedingly desirable. All will be sent by mail, postpaid. See our Combination and Clubbing Offers with other papers on another page.

**NOTICE:**—When you send in your subscription you must in the same letter claim your premiums. If you fail to do this, it will be useless for you to make your claim later, since it is impossible for us to look over 112,000 subscribers to adjust such a small matter. ORDER BY NUMBER ONLY. Figure all subscriptions at 50 cents each, and then get the premium for your commission. Plants will be mailed in early spring.

## PREMIUM No. 1.

### TWO CLEMATIS VINES

One each of the following varieties:

**Mad. Ed. Andre.**—A distinct crimson red color, a very pleasant shade and entirely distinct from all others.

**Jackmanni.**—The flowers of this variety when fully expanded, are from four to six inches in diameter. Color, violet purple.

One each of the above vines will be sent to all who send us 50 cents for our paper one year, and claim this premium when subscribing.



The above illustration is a photo-engraving of the Clematis Jackmanni which a subscriber has received as a premium with Green's Fruit Grower. The photograph is kindly sent us by John McRobert of Oregon. The premium plants and trees sent out with Green's Fruit Grower have opened up new territories for fruit growing in many parts of the great western country where many places are cut off from railroad communication and can receive plants and trees only by mail.

## PREMIUM No. 7.

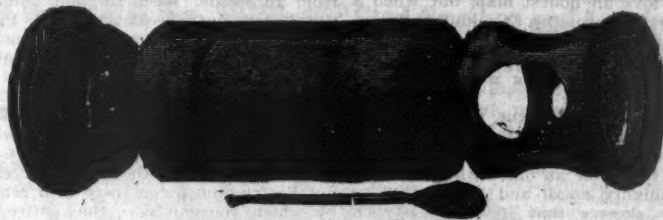
### 4 Red Cross Currant Plants

Four well rooted plants of the new Red Cross Currant, the largest and most productive red currant, very vigorous in growth, clusters long, will be sent to all who send us 50 cents for our paper, one year, who claim this premium when subscribing.



## PREMIUM No. 8.

We will mail you ten plants of Green's New Un-named Strawberry, pineapple flavor, large, productive, and vigorous, and Green's Fruit Grower one year, all for 50 cents.



## PREMIUM No. 2.

### A SCIENTIFIC MICROSCOPE.

This microscope is especially imported from France. As regards power and convenient handling, good judges pronounce it the best ever introduced for popular use. The cylindrical case is manufactured from highly polished nickel, while there are two separate lenses—one at each end of the microscope. The larger glass is a convex magnifier, adapted for examining insects of various kinds, the surface of the skin, the hair, fur, or any small articles. The other lens is exceedingly powerful and will clearly delineate every small object entirely invisible to the naked eye. Every farmer, family, school, and teacher should own a microscope. Send us 50c. for microscope and subscription to Green's Fruit Grower one year.

## PREMIUM No. 3.



### TREE AND GRAPE VINE PRUNER.

We offer the Levin Pruning Shears, being well tested by Chas. A. Green, best of all pruners, to all who send 75c. for our paper one year, who claim this premium when subscribing.



## PREMIUM No. 4.

### RUBBER STAMP

with your name and address. This is a valuable premium. It is a nickel-plated machine which you can carry in the pocket with self-inking rubber type, which stamps your name and address on envelopes, letter heads, etc., so that your letters cannot go astray. Sent to all who send us 50c. for our paper one year, who claim this premium when subscribing.

Enclose bank draft on New York, P. O. order or express money order, and your order will be filled. We prefer postage stamps to individual checks, which cost us 10 cents each to collect.

GREEN'S FRUIT GROWER,  
Rochester, N. Y.



## PREMIUM No. 5.

### THREE HARDY ROSES

Two-year old out-door rose bushes which will blossom same year planted, and will be of the choicest varieties. These bushes will be sent to all who send us 50 cents for our paper one year, who claim this premium when subscribing. We will select an assortment of colors from the following hardy hybrid perpetual varieties: General Jacqueminot, Prince Camille De Rohan, Coquette Des Blanchés, Coquette Des Alpes, Paul Neyron, Mrs. John Laing, John Keynes, La Reine, La France. The selection must be left entirely with us.

## PREMIUM No. 6.

### Two in One—Combined Pruning and Budding Knife.



This beautiful pattern, buck handle, razor steel. Combination Pruner and Budder, should be in every man's pocket who grows fruit. We offer it with Green's Fruit Grower for two years for \$1.00.



## PREMIUM No. 9.

### TWO GRAPE VINES

ONE C. A. GREEN GRAPE—AND  
ONE CAMPBELL'S EARLY.

One strong well rooted vine of the new and remarkably valuable grape vine called The C. A. Green Grape will be sent you by mail postpaid, with Green's Fruit Grower.

One Campbell's Early Grape, a new variety of great promise. It is one of the strongest growers, and one of the most hardy varieties. It ripens with Moore's Early, quality is good and it is a long keeper. Two vines will be sent to all who send 50c. for our paper one year.



## PREMIUM No. 10.

### ONE NIAGARA PEACH TREE AND ONE C. A. GREEN GRAPE VINE.

A new peach ripening one week earlier than Elberta, remarkably free from yellows and leaf curl, and cannot be surpassed in healthfulness and vigor. It is of large size, beautiful, and better in quality than Elberta. One tree will be sent to all who send us 50 cents for our paper one year, and claim this premium when subscribing.

See Nut Picks, Baby Spoon, Knives & Book Premium Offers on other pages



### Uncle Eli, He Says:

I've got the greatest trust in mankind, but at the same time I never buy milk pans of a tin peddler without lookin' for holes in the bottom.

Thar's no doubt that Providence takes keer of a man up to a sartin' pint, but when that pint is reached he is expected to put on steam and outrun the bull.

I never filled but one political office. The salary was \$50 a year, and my expenses were \$200, and yit a hundred different folks figgered out that I stole about \$500.

I do love an honest man, but when a naybur wakes me up at midnight to return an old tobacco box he has found at my gate it does seem to me that he is stretchin' the thing a leetle bit too fur.

It's all right to argue that the office should seek the man, but you take my word fur it that whenever you find such a case it will be an office whar the pay is so mighty small and the stealin' so mighty skeerce that it won't pay a hard-workin' man to fule with it.

I've traded cows with a church deacon, and I've traded hosses with a regular old sinner, and, to be honest with you, I've found that I had to watch one as closely as the 'tother.

I have been called a smart man a few times in my life, but, alas! it has allus follered that the fellers struck me fur a \$5 bill jest as I was feelin' might peart over their flattery. It's cheaper to be known as a fule.

I think every man order be given a fair chance. That is, when he's talkin' to you in the middle of the road he should be expected to tell the truth, but when he's down to Skinner's grocery of an evening he should be expected to outlie all the other story-tellers.

I hain't sayin' that if I found a naybur's wallet in the road I wouldn't return it, but I'm frank enough to admit that I'd be three or four weeks about it and then kinder feel that he had somehow done me an injury.

When a man comes to me and wants to let me in on the ground floor of a good thing, I know that one of two things is goin' to happen. He is either goin' to swindle me or I've got to turn in with him and swindle somebody else, and so I have concluded to hoe corn and depend upon my natural goodness to meet with its due reward.—Credit Lost.

The sensible man is the man who always agrees with you.

Some folks will find fault even when a feller does his best.

No single man or woman ever conceded that marriage is a failure.

Pessimists are generally men with long hair and women with short hair.

The woman that's on the shelf always lowers herself when she gets married.

Real happiness and religion are about the only things a man can't get wrongfully.

All women may not be mind readers, but there's mighty few that ain't mind speakers.

A feller with good hearing is often as deaf as a post when you want to borrow a dollar.

If swallowing words gives a man indigestion, there's lots of fellers with incurable cases.

Folks that's so deaf they never know it thunders never miss hearin' an invitation to a picnic dinner.

If money could really talk, it would be able to make some interesting comments about how some folks got rich.

If the Japs keep up their fightin' like they've done in the past, the Russians will likely adopt Sherman's definition of war.—Farm Life.

The old-fashioned girl as mentioned in Green's Fruit Grower, I consider very fortunate to escape the attentions of our new style dudes; if she receives attentions and love it will be of one that is sensible and of noble character and she will know it is given to her own good self and not to her style, and there are still such as our editor was seeking, worthy lifemates. The great increase of divorces are results of those frivolous youths and maidens that waste their wealth of love on worthless objects.—Mrs. John A. Pa.

"Have you ever stood of evenings  
Neath the shadow of the trees,  
And in low and solemn whisperings  
Cast your cares upon the breeze,  
While some rosy dimpled maiden  
Kept you gently in suspense,  
As you stood in conversation,  
Simply chewing at the fence?"

I want it said of me by those who know me best, that I always plucked a thistle and planted a flower where I thought a flower would grow.—Abraham Lincoln.

"Lord, for to-morrow and its needs  
I do not pray.  
Keep me from stain of sin  
Just for to-day."

### Points on Peach Culture.

Whether soil is sandy or loamy is not so important as the elevated site for the peach orchard. Always select a hill side or a hilltop and see that the land is well drained. The question of varieties is of the greatest importance, therefore spend much time in selecting the kinds you plant, endeavor to cover as long a season as possible. Do not plant trees over one year old. Those planters who ask nurserymen for peach trees two or three years old, do not know what they are talking about. Give frequent but shallow cultivation. Keep the ground free from all weeds. Keep the soil well fertilized but not excessively so. Prune the trees every year, cutting off nearly one-half of the previous season's growth. In early spring remove the soil from the base of the trunk and dig out any grubs that may be there; then bank up the tree a foot high with soil which should be removed in the fall. If San Jose scale attacks the peach trees, do not be frightened for there is a remedy by which you can save the entire orchard, and you can learn of this remedy by corresponding with your State Experiment Station or with the U. S. Department of Agriculture, Washington, D. C. Remove quickly every tree affected with yellows. For curl leaf, spray late in winter, or early in spring before buds start, with a solution of copper sulphate, 1 pound to twenty gallons of water, or with Bordeaux mixture.

"Can't lie, eh? When I get through spanking, you can't sit either."

### It Can't Be Done.

When Columbus set sail to discover a new world, he was told by thousands of people, "It can't be done."

When Watt the inventor was hard at work with the problem of making steam a motive power, the cry on every side was "It can't be done!" When Morse planned to communicate between distant points by electricity, every one said "It can't be done." All the great achievements of the world have been accomplished in the face of this discouraging cry "It can't be done!" I have seen men struggling under a load of debt. Their neighbors and friends were sure the debts could never be paid, but they were paid. I recall the experience of a young man without capital, who on a run-down farm on an isolated road, proposed to start a national nursery business, but told by all who were familiar with the circumstances that it could not be done. But it was done, and with success. I also have in mind a young man who started a publication under adverse circumstances without experience or capital. He was discouraged on all sides. Veterans in the business explained the difficulties of the situation. The graveyards, where hundreds of similar publications were buried, were overhauled to discourage the new venture; but it was begun nevertheless and was successful. There is nothing impossible under the sun. Human will and determination would seem to be almost omnipotent.

"A drop of ink may make a million think."

### AN ASTHMA CURE AT LAST.

It gives us great pleasure to announce the discovery of a positive cure for Asthma, in the wonderful Kola Plant, a new botanic product found on the Congo river, West Africa. The cures wrought by it in the worst cases, are really marvelous. Sufferers of twenty to fifty years' standing have been at once restored to health by the Kola Plant Compound. Among others, many ministers of the Gospel testify to its wonderful powers.

Rev. S. H. Elsenberg, Ph. D., Centre Hall, Pa., perhaps one of the worst cases, was permanently cured after many years' suffering. Rev. D. S. Hopkins, Wilson, Ind. Ter., writes, May 25th, his wife was cured two years ago after eight years' suffering. Rev. F. F. Wyatt, the noted Evangelist, Abilene, Texas, writes, was cured of Hay-Fever and Asthma after eight years' suffering and had no return of the disease. Mr. L. H. Johnson, of Gainesville, Ga., Manager of the Gainesville Shoe Co., writes, the Kola Compound is a death blow to Asthma. It cured my daughter after all hope had gone and words are inadequate to express our gratitude to the importers.

To prove to you beyond doubt its wonderful curative power, the Kola Importing Co., No. 1,164 Broadway, New York, will send a large case of the Kola Compound free by mail to every reader of Green's Fruit Grower who suffers from any form of Asthma. This is very fair, and we advise sufferers to send for a case. It costs you nothing and you should surely try it.

**CUT THIS OUT** If you want 200 different samples of magazines and newspapers and send with 10 cents for one year's subscription to "The Welcome Guest," the best original magazine published, which you will receive for twelve long months and 200 samples as promised. Address, THE WELCOME GUEST, Portland, Maine.

# SAVE MONEY!

By sending your subscriptions through us. Read carefully all our

## CLUBBING OFFERS

We have a reputation for making the most liberal clubbing offers. Should you not find what you want listed here, write us for prices on any clubs you do want. We can assure you of prompt and economical service.

## OUR BIG DOLLAR OFFERS.

We can furnish you any one of the following clubs for only \$1.00. The publications listed will be sent one year each in one or different addresses.

McCall's Magazine  
Vick's Magazine  
Housekeeper  
Green's Fruit Grower

Woman's Home Companion  
Woman's Farm Journal  
Green's Fruit Grower

Farm and Fireside  
Vick's Magazine  
Housekeeper  
Green's Fruit Grower

Farm Journal  
Farmer's Voice  
Woman's Farm Journal  
Green's Fruit Grower

Farmer's Voice  
Kimball's Dairy Farmer  
Farm Journal  
Woman's Magazine  
Green's Fruit Grower

Housekeeper  
Woman's Magazine  
Woman's Farm Journal  
Green's Fruit Grower

Farmer's Voice  
Woman's Magazine  
Housekeeper  
Woman's Farm Journal  
Green's Fruit Grower

Farm Journal  
Farm and Fireside  
Reliable Poultry Journal  
Woman's Magazine  
Green's Fruit Grower

Mayflower  
Home and Flowers  
Woman's Magazine  
Green's Fruit Grower

Farmer's Voice  
Woman's Magazine  
American Poultry Advocate  
Woman's Farm Journal  
Green's Fruit Grower

American Poultry Advocate  
Poultry Keeper  
Woman's Farm Journal  
Green's Fruit Grower

Agricultural Epitome  
Vick's Magazine  
Poultry Success  
Green's Fruit Grower

Farm and Fireside  
Farmer's Voice  
Farm Journal  
Woman's Magazine  
Green's Fruit Grower

Tribune Farmer  
Housekeeper  
Woman's Farm Journal  
Green's Fruit Grower

Poultry Keeper  
Poultry Success  
American Poultry Advocate  
Woman's Farm Journal  
Green's Fruit Grower

McCall's Magazine  
Vick's Magazine  
Farmer's Voice  
Green's Fruit Grower

Farmer's Voice  
Vick's Magazine  
American Poultry Advocate  
Green's Fruit Grower

Farmer's Voice  
Vick's Magazine  
Farm and Fireside  
American Poultry Advocate  
Green's Fruit Grower

American Poultry Advocate  
Vick's Magazine  
Tribune Farmer  
Green's Fruit Grower

## OTHER SPECIAL COMBINATIONS.

These offers give big value for the money and will furnish the best of reading matter for the whole family to same or separate addresses.

American Boy	1 yr.	\$1.00	Our Club	World To-day	1 yr.	\$1.00	Our Club
Housekeeper	1 "	.50	Price	Woman's Home Comp.	1 "	1.00	Price
Vick's Magazine	1 "	.50	\$1.25	McCall's	1 "	.50	\$3.25
Green's Fruit Grower	1 "	.50		Green's Fruit Grower	1 "	.50	

House Beautiful	1 yr.	\$2.00	Our Club	Woman's Home Comp.	1 yr.	\$1.00	Our Club
Cosmopolitan	1 "	1.00	Price	Good Housekeeping	1 "	1.00	Price
World To-day	1 "	1.00	\$3.50	Green's Fruit Grower	1 "	.50	\$1.85
Green's Fruit Grower	1 "	.50		Woman's Home Comp.	1 yr.	\$1.00	Our Club

The Housekeeper	1 yr.	.50	Our Club	Woman's Home Comp.	1 yr.	\$1.00	Our Club
Vick's Magazine	1 "	.50	Price	American Boy	1 "	1.00	Price
Green's Fruit Grower	1 "	.50	60c.	Vick's Magazine	1 "	.50	\$1.50
				Green's Fruit Grower	1 "	.50	

McCall's	1 yr.	\$1.50	Our Club	Frank Leslie's Pop. Mo.	1 yr.	\$1.00	Our Club
Madam	1 "	1.00	Price	Housekeeper	1 "	.50	Price
American Boy	1 "	1.00	\$3.50	Farmer's Voice	1 "	.50	\$1.75
The Era	1 "	1.00		Vick's Magazine	1 "	.50	
Vick's Magazine	1 "	.50		Green's Fruit Grower	1 "	.50	
Green's Fruit Grower	1 "	.50					

Enclose bank draft on New York, P. O. order or express money order, and your order will be filled at once. Individual checks will not be accepted. Make all remittances to Green's Fruit Grower, Rochester, N. Y.

Green's Fruit Grower, Rochester, N. Y., Gentlemen: Enclosed find \$..... for which send the following publications for one year to addresses given:

Name.....
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P. O.....
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Our Club  
Price  
\$2.50

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\$1.75

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Since peach trees grow far more rapidly than apple trees and do not live so long, it has been a common practice in western New York, after planting an apple orchard the trees being two rods apart each way, to plant a peach tree between every apple tree in the row of apple trees, and to plant another row of entirely peach trees between each two rows of apple trees. In this way the apple orchard will contain as I figure it, three times as many peach as apple trees. I have practiced this method and have secured bountiful crops of peaches from the orchard long before the apple trees came into bearing. When the peach trees have become fully grown and cover a large portion of the soil with their branches, they begin to infringe upon the moisture and fertility of the soil so as to retard the development of the apple trees, and should then be removed. But meanwhile the planter has secured three, four or five crops of peaches which has given him a good profit on his investment, peach trees being less expensive than apple or many other kinds of fruit trees. Where peach trees are planted with apples as suggested, the orchard should be carefully and thoroughly cultivated. Peach trees are great absorbers of moisture from the soil and cannot thrive to the best advantage on uncultivated land.

An interesting day on the farm for us children was the day when mother made soap. I presume at the present day there are few farmers' wives who make soap, but forty years ago no thrifty housewife thought of buying soap. Barrels of wood ashes had been set up from the ground on slanting boards and water had been poured into the tops of these barrels daily for some time and the lye had been collected in iron kettles as it dripped below. On soap making day the lye was placed in a large iron kettle which was located in the yard, the accumulated waste fat was poured into this lye, and the whole was cooked and stirred throughout the day until the mixture constituted a soft soap. This soft soap was ladled from the iron kettle into small tubs. When it cooled it was nearly the consistency of jelly, and in this shape was used largely for washing clothes, but often for washing the hands. We notice that little things were made much of by farmer's children in old times since there was but little going on at the farm. Days when the threshing machine came, or the buzz-saw, or when harvesting or haying began, were all events in our lives.

Profits.—We are told of a ten-acre orchard devoted to pears, plums and apples which this year brought in \$3,000 from sales of fruit. We have often told our readers that much can be done on a ten or twenty-acre fruit farm. We would not devote all of the small farm to orchards, but would devote a portion of it to strawberries, raspberries, blackberries, currants, grapes and other small fruits.

Have Women More Curiosity Than Men?—At a millionaire wedding in New York City the streets were so thronged with women that the carriages could not pass. Women took possession of the gallery of the church and were driven out by the police. A dozen women crawled through a hole through which coal had been thrown in order to get a view of the bride, while others crawled under the canvas awning spread before the church and had to be pulled back by their feet by policemen. This indicates that women are curious.

The Perfect Man.—"I hold in my hand a piece of chalk," said a stranger at the prayer meeting. "The Bible says we must mark the perfect man. I have carried this chalk for twenty years, but have never yet found a perfect man to mark with it."

Sex in Strawberries.—Sometimes we hear of people whose strawberry bed is not productive. The berries are knotty or otherwise imperfect. This may be owing to the fact that the blossoms of the variety planted are not perfect, that they are not bi-sexual. If the blossoms are not perfect it is necessary to have two varieties of strawberries growing in adjacent rows, or near each other, otherwise the fruit will be imperfect.

Spring will soon be knee deep in June.

#### OUR CLUBBING OFFER WITH THE NEW YORK TRIBUNE FARMER.

NOTICE that 50 cents pays for the Tribune Farmer Weekly and Green's Fruit Grower for one year. This is a proposition that should not be overlooked by our readers. Remember that our offer is to send you the Tribune Farmer Weekly for 1 year and Green's Fruit Grower for 1 year, all for 50 cents.

Bleach and Blush.—"Watch these fellows," said the captain of an ocean-going tug at the Aquarium the other afternoon as he stood in front of the tank containing more than a dozen of the beautiful red hinds from Bermuda, says New York Sun. "See them change color like the pretty chameleons of the tropics, only quicker."

"I think it is one of the most amusing things in nature, and I have watched them in their native waters many a time. They live among the pink and white corals where the water is so clear that it deceives you about the depth. You think that you are in danger of hitting a coral reef that is twenty or thirty feet below the keel and you can see these fish playing around in the water. Watch these fellows swimming around. They are dark red on the back and pink on the sides. See those at rest on the bottom or clinging to the rock there. They are blotched with white patches and bars and the red has almost entirely disappeared."

"There is a red one settling down. Just notice the red give way to white as soon as he is at rest, and watch that one which he has disturbed grow darker every minute. Isn't a study?"

"It seems to me that it is a provision of nature to protect these fish while resting. The hinds are not the only fish that change in color, but they appear to make the change quicker than any other variety that I know of."

The Ocean's Volcanoes.—All recorded submarine earthquakes have been plotted on a map of the world by Wilhelm Krebs. Many of them represent submarine volcanic eruptions, and a very striking fact is their great concentration in the narrowest part of the Atlantic ocean, between Africa and South America. It is suggested that this greater apparent activity may be due largely to lack of observations in the much less traveled Pacific. Other centers are the West Indies, the west coast of South America, the south of the Bay of Bengal, the Malay Archipelago, eastern Japan and the Mediterranean.

Moss on Trees.—The idea that moss grows thickest on the north or east side of trees seems to have been disproved. A French botanist Leon Bedel, now concludes that mosses, prefer the parts of the tree that retain most moisture, being thus more abundant on rough or cracked parts, on the upper part of a branch or inclined trunk, on knots or bosses, at the fork of branches, and at the base of the trunk.

About Grafting Wax.—A good preparation is made by mixing together twice as much rosin as beeswax and twice as much beeswax as linseed oil or tallow, and dissolving, says Rural World. When there is much grafting to do I like to apply the wax with a brush when warm, covering the entire scion and all cut surfaces. The more common method is to pour the warm wax into cold water, then pull like molasses candy until it is light in color, divide into sticks of a convenient size for handling and lay away in a cool place until ready for use. Press this gently around the grafts, covering all cut surfaces. In warm weather it may be necessary to use a little grease to prevent wax from sticking to fingers.

Electric Fish Hunting.—Electricity is now made to serve the fisherman by showing the presence and extent of shoals of fishes. The apparatus is the subject of a German patent, and it consists of a microphone, which is inclosed in a water-tight case and connected with an electric battery and telephone. As long as the microphone hangs free on being lowered into the water, no sound is heard. When fishes strike against the case, however, their presence is revealed by tappings, and the length of the rope supporting the microphone gives the exact depth at which the shoal is encountered.

Do not shake the tree of quarrels. Its fruit falls too quickly as it is.

It is not always the frosty atmosphere that brings the bloom to the cheek of the maiden enjoying a sleigh ride.

There is always room at the top, but not always the strength to climb to it. Uneasy lie the shoulders that carry a grand duke's head.

It is not good for many to be alone. But even though it were the collectors won't let him.

Never do to-day that which you can have some other fellow do to-morrow.—Cincinnati Commercial Tribune.

Wood Leg.—Scott Miller has met with another misfortune. While helping to load a heavy casting at the Lewistown foundry recently Scott had his wooden leg broken by the casting falling on it.—Lewistown "Free Press."

No Dealer  
Can Duplicate  
Our Factory  
Price



Our high grade carriages are made in our own factory, and sold exclusively by mail order at a saving of from \$15 to \$30 to the buyer. We warrant every vehicle to be just as represented or refund money and pay freight both ways. Send for free catalogue. It tells the advantage of buying from factory.

THE COLUMBUS CARRIAGE AND HARNESS CO., Columbus, Ohio.

## ACME Pulverizing Harrow

SIZES  
3 to 13 1/2 feet

Agents  
Wanted.



To be returned at my expense if not satisfactory.

The best pulverizer—cheapest

Riding Harrow on earth. The

Acme crushes, cuts, pul-

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all soils for all purposes.

Made entirely of cast

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Catalog and booklet

"An Ideal Harrow" by

Henry Stewart sent free-

ly on request. Address: Duane H. Nash, Sole Manufacturer, Millington, New Jersey.

BRANCH HOUSES: 110 W. Washington St., CHICAGO. 240-244 7th Ave. S., MINNEAPOLIS. 1212 W. 9th St., KANSAS CITY, MO. 216 10th St., LOUISVILLE, KY. Cor. Water and W. Gay Sts., COLUMBUS, OHIO. PLEASE MENTION THIS PAPER.

## TILE DRAINED LAND IS MORE PRODUCTIVE

Earliest and easiest worked. Carries off surplus water; admits air to the soil. Increases the value. Acres of swampy land reclaimed and made fertile. Jackson's Rapid Drain Tile meets every requirement. We also make Sewer Pipes, Manholes, etc. Write for what you want and prices. JOHN H. JACKSON, 30 Third Ave., Albany, N.Y.

# Spray Pumps and Spray Material!

Practical Pumps, Safe Solutions, and Reliable Remedies, for all Plant Diseases.

### IMPROVED BRASS BARREL SPRAY PUMP

FOR ORCHARD OR SMALL FRUITS. It is made by the largest pump makers in the United States. Solid Brass and not affected by the materials used; throws a uniform, constant and elastic spray and is very powerful and easily operated. The patent agitator stirs the solution from the bottom. Nothing to get out of order. Can be used for whitewashing. The best Barrel Spray Pump on earth for the price.

Price, No. 5, complete, with 5 feet of three-ply discharge hose and nozzle, ready to use, weight 25 lbs., only \$4.95

Eight-foot extension pipe for higher trees, .50

Price, No. 6, complete, with two 5-foot lengths of three-ply discharge hose and two nozzles for spraying two rows at a time, ready to use. Weight 30 lbs. 5.95

Eight-foot extension pipe for higher trees (each), .50

For Dasher Agitator, if preferred, add \$1.00 to the price of either pump.

Always use extension pipes—You get better results.

ALL STEEL BARREL CART. For use with any of our Barrel or Bucket Pumps. Enables the user to reach places that would be impossible with a team and wagon. It is also a valuable protection against fire, and for sprinkling. Being made entirely of steel, it will last a life time.

Price, without barrel, \$3.95

Barrel \$2.00 extra. Complete with barrel, 5.95

### BUCKET OR BARREL SPRAY PUMP.

Two Pumps in one for trees or small fruits and potatoes. A Brass Bucket or Barrel Spray Pump with more real advantages than are contained in any other spray pump on the market, and is sold at a moderate price. The work is all done on the down stroke and it can be operated with one-third the power required for any old style pumps. It is an excellent pump for practical use.

Price, No. 24, complete, ready to use, with agitator, 5 feet of 3-ply hose and

With eight-foot extension pipe for spraying large trees, \$3.45

Always use pipe extension—You get better results. 3.95

Price, No. 25, same as No. 24 for Bucket only, 2.95

For small fruit and a few trees this pump will do very good work.

### KNAPSACK SPRAYER FOR SMALL FRUIT, POTATOES, ETC.

A Convenient Outfit, with which to spray from four to six acres of small fruit or potatoes in a day.

The tank holds 5 gallons, and is fitted with lid and strainer.

The pump has a large air chamber, ball valves, solid plunger and agitator.

The handle lever can be shifted from right to left

shoulder, at will. Price, No. 330, Knapsack Spray Pump, with 5 feet

of 3/4-inch hose, pipe extension and Bordeaux or graduating Vermorel

spray nozzle, which can be graduated from a fine mist spray to a solid

stream or shut off entirely, \$4.95.

NOTICE.—We can send any of the above Sprayers DIRECT FROM THE FACTORY in Ohio, if desired, to HAVE EXPRESS CHARGES TO POINTS IN THE FAR WEST.

CONDENSED BORDEAUX MIXTURE. (Standard Formula, 1 gallon makes 50 gallons spray.) Ready for use by simply adding water. An indispensable fungicide, curing and preventing black rot, mildew, blight, rust, scab, and all fungoid diseases on fruits and plants.

1 gal. Bordeaux Mixture makes 50 gals. of spray solution, U. S. Standard, 1.00

Price, 5 gals. Bordeaux Mixture of spray solution, 4.00

KEROSENE EMULSION for Scale and all Sucking Insects.—Prepared according to the most improved formula; ready for use by simply adding water (10 to 20 parts water to one of Emulsion). Price, per gallon, \$1.00; 5 gallons, \$4.50.

WHOLE OIL SOAP for San Jose Scale and Cabbage Worms. For cabbage worm, scale on trees, caterpillars, melon louse, rose bugs, green fly and lice of all kinds, all sucking insects, either on plants or animals. Use from one to two pounds of the soap to 5 to 8 gallons of water. Be sure that the soap is thoroughly dissolved, and then apply in form of spray. Price, 1 lb., 15c.; 2 lbs., 25c.; 5 lbs., 50c.

WHITE HELLBORE FOR CURRANT AND GOOSEBERRY WORMS.

Hellbore is often employed in cases where arsenical poisons would be objectionable. Use one ounce to three gallons of water. Price, 1 lb., 25c.; 5 lbs., \$1.00.

SULPHO-TOBACCO SOAP FOR ROSE BUGS AND CURRANT WORMS.

Excellent for rose bushes, shrubs, house plants, etc. It also acts as a valuable fertilizer, reviving plant life. For domestic purposes it rid the house of cockroaches and is a superior wash for dogs and all animals. Prevents poultry lice. Price, 5 oz. cake, sufficient for two gallons prepared solution, 10c.; mailed, postpaid, 15c.; 1 lb. cake, sufficient for 5 gallons prepared solution, 20c.; mailed, postpaid, 25c.

Valuable booklet, "The Window Garden," free with 5 oz. cake of Sulpho-Tobacco Soap.

Our Spray Catalogue showing large power sprayers sent on request.

Write us, telling how many trees you have to spray, the size, etc.; also the small fruit, potatoes or

cabbage to be sprayed, and let us help you in the choice of a Sprayer, large or small, according to your actual needs. If you write us at once, we can send you the latest and most reliable Spray Calendar,

telling just what to use and just when to spray. Address

GREEN'S NURSERY CO., Supply Dept., ROCHESTER, N.Y.



## RHEUMATISM

**Wonderful New External Remedy**  
Curing Thousands. Any Rheumatic Sufferer May Try It Without Cost.

**Send Your Address and Get A Dollar's Worth FREE.**

I have a sure, quick and lasting cure for Rheumatism. I cure it by means of Vibro Discs, a wonderful new appliance which is used exter-



nally and draws out the poison from every part of the system. It is the wonder of the age, and a godsend to Rheumatic sufferers. There is nothing like it, and nothing equal to it. It banishes pain as if by magic, and conquers this dread disease in all its cruel forms and stages. It is safe, simple and convenient for home use and roots out the acid venom so thoroughly that no relapse or fresh attack can occur. Prove these claims your self by testing the remedy at my expense. I will send you, absolutely free, four of these Vibro Discs—



a full dollar's worth—if you simply send me your name and address. This is an absolute gift, and I shall neither ask nor accept pay for it now or in the future. Can you afford to continue in pain and misery when you can get this marvelous new and guaranteed treatment simply for the asking? Write me to-day and I will send you the treatment at once and with it an elegant illustrated book on Rheumatism, all free and prepaid. Don't send any money—not even a postage stamp—but send your name and address THIS VERY DAY. PROF. S. M. WATSON, Dept. 52, Battle Creek, Mich.

## A WIFE'S MESSAGE

**Cured Her Husband of Drinking.**

**Write Her To-day and She Will Gladly Tell You How She Did It.**

My husband was a hard drinker for over 20 years and had tried in every way to stop but could not do so. I at last cured him by a simple home remedy which any one can give secretly. I want every one who has drunkenness in their home to know of this and if they are sincere in their desire to cure this disease and will write to me, I will tell them just what the remedy is. My address is Mrs. Margaret Anderson, Box 421, Hillburn, N. Y. I am sincere in this offer. I have sent this valuable information to thousands and will gladly send it to you if you will but write me to-day. As I have nothing whatever to sell, I want no money.

**"Best Stocking I ever have had."**

This sentence comes to me in letters daily from people who have worn other makes of Elastic Stockings before getting ours. It is because we make them to measure from new elastic.

Our seamless heel  
**Elastic Stockings**  
Are the best remedy yet known for Varicose Veins, Weak Knees, Weak Ankles, Swollen Joints, Ulcers, etc. You get them direct from the manufacturers at lowest possible prices.

Send for Catalog with prices and self-measuring directions. CURTIS & SPINDELL CO., 40 Market Street, LYNN, MASS.

## Barken Your Gray Hair

**DR. OZARK HERB** restores gray, streaked or faded hair to its natural color, beauty and softness. Prevents the hair from falling out, promotes its growth, cures and prevents dandruff, and gives the hair a soft, glossy and healthy appearance. IT WILL NOT STAIN THE SCALP, is not sticky or dirty, contains no sugar of lead, nitrate silver, copper, or poisons of any kind, but is composed of roots, herbs, barks and flowers. **PACKAGE MAKES ONE PINT.** It will produce the most luxuriant tresses from dry, coarse and wiry hair, and bring back the color it originally was before it turned gray. Full size package sent by mail, postpaid, for 25 cents. **DR. OZARK HERB CO., Block 21, St. Louis, Mo.**

**Goitre Cure.**—A friend has been cured of Goitre at home. I will send her recipe for 25 cents. Address, Green's Fruit Grower, Rochester, N. Y.

## When Early Spring Sets In.

By Joe Cone in Four Track News.

I long for the wild and rocky slopes where the "crick" goes winding down, Where the buds start out and the spears of grass come green between the brown; Where the bluebird calls to his chirping mate and their happy songs begin. O, I long, I say, for the balmy day when the early spring sets in.

For the nimble trout is hungry then and he bites in a cheerful way, And the perch move in where the water's shoal and warm by the bank to play; And the bullfrogs down in the lowland marsh with the tree-toads start a din, And the golden sap is there on tap when the early spring sets in.

When the early spring sets in there comes a bustle on the farm, And winter slinks beyond the hills in sadness and alarm; And man and beast and bird and fish and insect all begin To chant a lay to the happy day when early spring sets in.

## Sergeant Skinner.

A WAR VETERAN'S EXPERIENCE.

Written for Green's Fruit Grower.

When the great war of the Rebellion broke out in this country Sergeant Skinner was a young man, a farmer's boy whose mother was a widow. Early during the war he enlisted and was sent at once to the front. He met with the usual hardships and varied experiences of the volunteer soldier. Leaving a comfortable home and a loving mother and friends he was thrown among rough associates, was compelled to tramp through storm or heat, through mud, dust or scorching sun, and to sleep on the wet ground rainy nights. On one occasion he with others were out on picket duty. A portion of the Southern army attacked his forces and he being between fire of

prison the doctor told me I could take one of the carriages to be found below, to carry me to Richmond. When I arrived at the carriages the soldiers in charge said that no d—md Yankee should ride in the carriage, telling me I could ride in a lumber wagon. When I reached the lumber wagon the soldiers there said that no d—md Yankee could ride in one of those. I was finally allowed to ride on the back of mule six miles in my terrible wounded condition in the hottest sun that ever shone. Every moment I felt that I might fall from the beast through faintness."

When Sergeant Skinner and other veterans get together they remain all night talking over war experiences. The Sergeant is a poor man nearly seventy years old, unable to do a full day's work. He gets a pension of \$10.00 a month which, with the little he grows on his two acre place sustains himself and his invalid wife, whom he nurses tenderly. "I used to think," remarked the sergeant, "that God saved my life on the battle field, but I must have been mistaken, for would it have been right for God to have saved me and to have allowed other brave boys to die who also had mothers at home waiting for them. "No, Sergeant Skinner, you are not right in this supposition," says a theological friend. "You do not know why your life was saved and other lives were lost, but God knows."

The burdock belongs to the same family as the thistle and dandelion (the Compositae), and, like most of our worst weeds, is a native of Europe. Of it Dr. Darlington says: "Everybody knows this coarse, homely weed, but everybody does not take care to keep it in due subjec-



## MORE GOOD ROADS ABOUT ROCHESTER, N. Y.

We feel that we cannot say too much on the subject of good roads, the one thing needed in this country. The United States takes the lead in almost everything, but in the question of good roads our country is far behind the age. The roads we are illustrating are macadamized roads, built at large expense, extending out from twelve to twenty-five miles in every direction from Rochester, N. Y. These roads have added to the pleasure, comfort and profit of the residents living along these highways, have increased the value of property, have made it more saleable, and at the same time the roads are greatly enjoyed by owners of automobiles, bicycles and carriage horses.

the two lines received five bullets, which disabled him. He fell into the hands of the Southern army and was confined in Libby prison. Here he and thousands of other soldiers suffered terrible privations and were reduced nearly to the point of starvation. The doctors in charge of the hospital were partially intoxicated when he was brought there and it seemed to him that they were removing the legs and arms of the Union soldiers to gain surgical experience. He trembled fearing that they would cut off some of his limbs. When they approached him he begged that they would leave him unmolested, and thinking he would die anyhow they passed him by. The soup served at Libby prison was full of flies but none of the flies were discarded; they were eaten with the soup and relished. He tells me that he secured a beef bone in which he encouraged the flies to work and breed maggots and he fed upon these maggots with great relish in his starved condition. Finally the prison authorities decided that it was useless to retain in prison those men who were not able to march, and he prayed that he might be among those thus selected to be removed. It was hoping against hope. If he was not chosen he would surely die. At last came the glad day when it was announced he was among those selected to be removed. "If I should wake to-morrow morning to learn that I had been elected president of the United States," he remarked, "I would not be so happy as I was to learn that I was among those to be removed from prison. On leaving Libby

prison the doctor told me I could take one of the carriages to be found below, to carry me to Richmond. When I arrived at the carriages the soldiers in charge said that no d—md Yankee should ride in the carriage, telling me I could ride in a lumber wagon. When I reached the lumber wagon the soldiers there said that no d—md Yankee could ride in one of those. I was finally allowed to ride on the back of mule six miles in my terrible wounded condition in the hottest sun that ever shone. Every moment I felt that I might fall from the beast through faintness."

Japan is the leading fishing nation to-day, although the value of her sea products is surpassed by that of two other countries. The United States, outside of Alaska, and Great Britain each produce about \$45,000,000 worth annually, and Japan leads in the proportion of the total population engaged in the fishing industry. In the actual number of people living by the industry, in the relative importance of fish products in the country's domestic economy and in the support given by the government to the industry.

Nan—Kitty, what does the new book-keeper look like?

Kitty—Well, he looks like a man who always had to put on his necktie while running to catch a train.—Indianapolis "Journal."

Dost thou crave a blessing? Give one. —M. K. Time loosely spent will not again be won.—R. Greene.

## A \$1. PACKAGE

**FREE TO TRY**

If you have

## PILES



Send your name to-day and get by return mail my new 3-fold Treatment which is curing thousands.

To every person answering this advertisement at once I will send—Free to try—my complete new three-fold absorption cure for Piles, Ulcer, Fissure, Prolapse, Tumors, Constipation and all rectal troubles. If you are fully satisfied with the benefit received, send me one dollar. If not, send nothing; you decide after a thorough trial. I am curing even cases of 80 and 40 years standing; as well as all the earlier stages. Act now and save yourself perhaps untold suffering. My three-fold treatment cures to stay cured, because it is constitutional as well as local, and I want you to try it at my expense. One dollar is little to pay if cured. My valuable new Pile Book, (in colors) comes free with the approval treatment, all in plain package. Send no money—only your name—to Dr. Van Vleck Co., 479 Majestic Building, Jackson, Mich. Write to-day.

## DRUNKARDS



## CURED SECRETLY. Box Sent FREE.

This harmless and pleasant remedy is given in Tea, Coffee, Food, etc., to cure Drunkards. Any wife, sister, daughter or mother can cure her loved one of this fearful degrading habit by this new simple remedy, as did Mrs. Mabel Scott, of Miami, Fla., who writes: "Oh, how happy I am that my husband has lost all his appetite for whiskey; he now hates the sight of it & refuses to drink, even when others offer it to him. Your remedy is surely a blessing for drunkards." Mrs. Scott's words of gratitude is only one of many in possession of this company. Anyone who will send their name and address and 4 cents to the Milo Drug Co., 136 Milo Building, St. Louis, Mo., will receive by mail, sealed in plain wrapper, a package of this remedy & full instructions how to cure the drink habit.

## Asthma

CURED TO STAY CURED.

Attacks stopped permanently. Cause removed. Breathing organs and nervous system restored. Symptoms never return. No medicines needed afterwards. 25 years of success treating Asthma and Hay Fever. 55,000 patients. Book 55 P Free.

Write P. HAROLD HAYES, BUFFALO, N. Y.

## Never Cut a Corn

It is dangerous. Our plasters give safe, sure and speedy relief, extracting the corn without pain or trouble. Mailed direct to your address five for a dime, fifteen for a quarter. Booklet on foot comfort free with each order. Not sold by dealers. **SIMPLEX CORN CURE, 1053 WALNUT ST. PHILA.**

## SURE CURE! Brooks' Appliance

**RUPTURE**  
New discovery. No obnoxious springs or pads. Anomalous Air Cushion. Holds and draws the broken parts together as you would a broken limb. No salve. No lymphoid. No lies. Durable, cheap. Pat. Sept. 10, 1911.

**SENT ON TRIAL. CATALOGUE FREE.**  
**BROOKS APPLIANCE CO., Box 919 MARSHALL, N.C.**

**Enlarged Prostate Gland.**—This is the cause of difficult and painful urination in men over fifty years old. The treatment is simple. No medicine necessary. A friend has been relieved at an expense of hundreds of dollars. We will send you his method and thirty years' experience on receipt of 25 cents. Address, Green's Fruit Grower, Rochester, N. Y.

## PARKER'S HAIR BALSAM

Enriches and beautifies the hair. Promotes a luxuriant growth. Stops falling hair. Stops itching scalp. Hair to its youthful color. Cures scalp diseases & hair falling. 50c and \$1.00 at Druggists.

## NEW INVENTION!

Write for new booklet, Special Offer this month. Our Quaker Folding Vapor Bath Cabinet, steam produced. Everybody delighted. Enjoy as home for its such all the marvelous advantages. Investigate, curative effects of the famous Turkish Baths. Open the 5,000,000 acid pores, purifies the entire system. Beats Hot Springs. Prevents disease. Saves Dr. bills. Cured thousands. Nature's drugless remedy for colds, grip, rheumatism, aches, pains, blood and skin diseases. Kidney trouble, children's diseases and female ills. Guaranteed. Best on 30 days' trial. \$100 to \$500 a month. Salesmen, managers, general agents. 1916 credit. **WORLD MFG. CO., 82 WORLD BUILDING, CINCINNATI, OHIO.**

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## 2941

Hidden Wages, Friendship, Silk Fringe, Rave and all other kinds of CARDS and Premium Articles. Sample Album of Premium Cards and Rave Fringe. 10c. 25c. 50c. 75c. 1.00. 1.50. 2.00. 2.50. 3.00. 3.50. 4.00. 4.50. 5.00. 5.50. 6.00. 6.50. 7.00. 7.50. 8.00. 8.50. 9.00. 9.50. 10.00. 10.50. 11.00. 11.50. 12.00. 12.50. 13.00. 13.50. 14.00. 14.50. 15.00. 15.50. 16.00. 16.50. 17.00. 17.50. 18.00. 18.50. 19.00. 19.50. 20.00. 20.50. 21.00. 21.50. 22.00. 22.50. 23.00. 23.50. 24.00. 24.50. 25.00. 25.50. 26.00. 26.50. 27.00. 27.50. 28.00. 28.50. 29.00. 29.50. 30.00. 30.50. 31.00. 31.50. 32.00. 32.50. 33.00. 33.50. 34.00. 34.50. 35.00. 35.50. 36.00. 36.50. 37.00. 37.50. 38.00. 38.50. 39.00. 39.50. 40.00. 40.50. 41.00. 41.50. 42.00. 42.50. 43.00. 43.50. 44.00. 44.50. 45.00. 45.50. 46.00. 46.50. 47.00. 47.50. 48.00. 48.50. 49.00. 49.50. 50.00. 50.50. 51.00. 51.50. 52.00. 52.50. 53.00. 53.50. 54.00. 54.50. 55.00. 55.50. 56.00. 56.50. 57.00. 57.50. 58.00. 58.50. 59.00. 59.50. 60.00. 60.50. 61.00. 61.50. 62.00. 62.50. 63.00. 63.50. 64.00. 64.50. 65.00. 65.50. 66.00. 66.50. 67.00. 67.50. 68.00. 68.50. 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# SOME UP TO DATE FASHIONS.

For the convenience of the ladies in the homes of our subscribers we have made arrangements with one of the largest and most responsible manufacturers of patterns to offer some of their reliable patterns at the nominal price of 10c each. We have tested these patterns and take pleasure in recommending them to our readers.

4965.—The quantity of material required for the medium size is 4 1/2 yards 21, 3 3/4 yards 27, or 2 yards 44 inches wide, with 1 1/2 yards of silk for collar and belt, and 1 1/2 yards of all-over lace for chemisette and cuffs.



4965 Fancy Waist, 32 to 40 bust.



4975 Blouse with Scalloped Yoke, 32 to 40 bust.

4975.—The quantity of material required for the medium size is 4 1/2 yards 21, 3 3/4 yards 27, or 2 yards 44 inches wide, with 1 yard of all-over lace for yoke, collar and deep cuffs and 2 yards of lace for frills to make as illustrated.

4966.—The quantity of material required for the medium size is 5 yards 27, 3 3/4 yards 32, or 7 yards 44 inches wide, with 6 1/2 yards of banding 2 inches wide, to trim as illustrated.



4966 Negligee Room Gown, Small, Medium, Large.



4970 Sailor Blouse Waist, 32 to 40 bust.

4970.—The quantity of material required for the medium size is 4 1/2 yards 21, 4 yards 27, or 2 1/2 yards 44 inches wide, with 1/2 yard 18 inches wide for shield and collar.

4967.—The quantity of material required for either sleeves is 1 1/2 yards 21 or 27, or 3/4 yard 44 inches wide.



4967 Blouse or Shirt Waist Sleeves, Small, Medium, Large.



4969 Men's Office Coat, 34 to 44 breast.

4969.—The quantity of material required for the medium size is 4 1/2 yards 27, 3 yards 44, or 2 yards 64 inches wide.

4976.—The quantity of material required for the medium size is 4 yards 27, 2 yards 44, or 1 1/2 yards 62 inches wide.



4976 Child's Coat, 1, 2, 4 and 6 yrs.



4968 Girl's Shirt Dress, 8 to 14 yrs.

4968.—The quantity of material required for the medium size (12 years) is 3 1/2 yards 21, 3 yards 27, or 4 1/2 yards 44 inches wide, with 1/2 yard of all-over lace for collar and cuffs and 2 yards of lace for frills to make as illustrated.

To get BEST measure put the tape measure ALL of the way around the body, over the dress close under the arms.

Order patterns by numbers, and give size in inches. Send all orders to GREEN'S FRUIT GROWER, Rochester, N. Y.

## Twenty Years Ago.

I've wandered to the village Tom, I've sat beneath the tree, Upon the schoolhouse playground, which sheltered you and me; But none were left to greet me, Tom, and few were left to know, That played with us upon the green, some twenty years ago.

The grass is just as green, Tom; bare-footed boys at play Were sporting just as we did then, with spirits just as gay; But the master sleeps upon the hill, which, coated o'er with snow, Afforded us a sliding place, just twenty years ago.

The river's rushing just as still; the willows on its side Are larger than they were, Tom; the stream appears less wide— But the grapevine swing is ruined now, where once we played the beau, And swung our sweethearts—pretty girls—just twenty years ago.

Near by the spring, upon an elm, you know I cut your name, Your sweetheart's just beneath it, Tom, and you did mine the same; Some heartless wretch has peeled the bark—'twas dying, sure but slow, Just as that one, whose name you cut, died twenty years ago.

My lids have long been dry, Tom, but tears came in my eyes; I thought of her I loved so well, those early broken ties; I visited the old churchyard, and took some flowers to strow Upon the graves of those we loved, some twenty years ago.

## Diamond Dust.

Circumstances spur us as much as they hinder us.

Lord, let me have anything but Thy frown, and anything with Thy smile.

Difficulty is the rude and rocking cradle of every kind of excellence.—Gladstone.

The wear and tear of rust is even faster than the wear and tear of work.—Smiles.

Face all things; even Adversity is polite to a man's face.—Josh Billings.

To go down stream is easy, but there is a Niagara at the far end.—Dr. Alex. MacLaren.

Self-government is the best government.

Character is not determined by a single act, but by habitual conduct.—Cuyler.

To repel one's cross is to make it heavier.—Amiel.

No one is useless in this world who lightens the burden of it for another.—Dickens.

All fetters are bad, even if they be made of gold.

Let us pray God's grace to keep God's image in repute.—Mrs. Browning.

Work is only done well when it is done with a will.—Ruskin.

The greatest Cross is to be without a Cross.—John Oliver Hobbs.

He who seeks happiness for itself never find it.

Each life that fails of the true intent mars the perfect plan that the Master meant.—S. Coolidge.

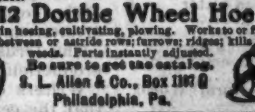
How to Catch Rats.—Set a small steel spring-trap on a board a foot square, and with a pencil mark the outlines of the trap, says New York Tribune. Cut away the wood between the marks so as to let the trap down into the board flush with the surface. This is a permanent arrangement, not absolutely necessary but very convenient, because easily kept covered. Now set the trap in the receptacle prepared for it, and cover it with bran, putting a little meal or flour directly over the pan. If the rats succeed in getting the bait without springing the trap, give some pumpkin seeds upon the pan and bait as before. Do not be discouraged if you do not catch any the first week. Old rats are very shy of all artificial arrangements of a suspicious nature; but as familiarity breeds contempt, they will be pretty sure to be caught in the end. I never fail to rid my cellar of rats in this way.

Rig Farmer.—A subscriber of Green's Fruit Grower, Dan Rankin of Missouri is the largest corn grower in the world. He has sent us a photograph which shows in one field 125 horse-power cultivators at work at one time cultivating corn. He has grown over 14,000 acres of corn in one season, yielding 1,000,000 bushels. He employs 250 men during all the months of the year. His plows, cultivators, etc., are all two-horse implements, thus saving the time of one man for each implement. Mr. Rankin feeds his corn on the premises, shipping last year 7,076 hogs which brought \$123,000. He made a gross profit of \$298,000 upon the cattle he fed upon his farm. He pays good prices for labor.

"I suppose a statesman must give a great deal of attention to books," said the novice, "Well," answered Senator Borghum, "he has to keep a check book. But it is just as well for him to be a little careful about what he puts down in his ledger."—Washington "Star."

## 2 Acres to One

Planet Jr. Garden Tools enable you to double your garden, yet keep it in perfect condition. Write to-day for a free copy of our newly illustrated 1906 Planet Jr. Catalog—the best handbook of garden tools ever published. Fully describes entire Planet Jr. line, including seeders, wheel hoes, hand and walking cultivators, barrows, one and two-horse riding cultivators, sugar beet cultivators, etc. It is almost unlimited in its usefulness. It shows, plows, attachments changed instantly. Simple, light, strong, durable, thoroughly dependable.



No. 4 Combined Seeder  
No. 12 Double Wheel Hoe

Please mention Green's Fruit Grower.

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are now labeled with a Red Tag which guarantees the quality of every tree shipped from the Phoenix Nursery Co.

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bear this Red Tag. We caution our customers to reject any stock represented as "Phoenix grown" that does not bear this Red Tag. Any stock offered without it is spurious. Now is the time to order for Spring planting. Our immense stock includes the best of the new varieties, all the old standards, and is guaranteed strong, healthy and true to name. We have been in the nursery business for fifty-two years and have the largest trade in the United States. Send for the Phoenix Catalogue, it's free. You can deal with us by mail, more satisfactorily than through agents and at half the cost. Our name and reputation guarantee the best. Write to-day.

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We offer to mail this book postpaid as a premium to every subscriber who sends 50 cents for Green's Fruit Grower one year and asks for this gift when sending the money. Address GREEN'S FRUIT GROWER, Rochester, N. Y.

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### Mankind, Like the Apple.

There are many kinds of apples,  
And they're either tart or sweet;  
There are those that look so rosy,  
After all it is deceit.  
Now, just take the little russet,  
Which do not appear so bright,  
Yet they are as sweet as honey,  
And their flavor brings delight.

And we, too, are like the apples,  
Some of us are not so sweet;  
There are those who are so bitter  
Seldom will they kindly greet;  
Many who drop in amongst us  
Will soon set our hearts aglow,  
And their spirits are so cheerful  
We regret to let them go.

—Rural World.

### Her Reward.

"The brute," exclaimed the bride of a year.

"Have a cup of tea, dear," said her dearest friend, "and tell me all about it. What has he been doing now?"

"You know I told you he has been encouraging me in learning to cook; has praised my nice little entrees, takes me to the theater as an occasional reward and all that."

"No good ground for a separation in that, I imagine," said the dearest friend, with slight sarcasm.

"Your sympathy is worse than your tea," retorted the bride, who was obviously out of sorts. "But I'm going to tell you anyway. Not long ago he promised me a surprise if I would turn out a nice dinner cooked all by myself, from soup to coffee. Last night I did it. Everything pleased him."

"My pet," he remarked, "I believe I promised you a surprise on an occasion like this."

"Yes, darling," I answered. "O, do tell me what it is?"

"I shall discharge the cook at the end of the month," he said.—New York Press.

A beautiful woman is a practical poem planting tenderness, hope and eloquence in all whom she approaches.—Emerson.

A throat dry with praying is rare to be found among us.—S. Rutherford.

The seeds of repentance are sown in youth by pleasure, but the harvest is reaped in age by pain.—Colton.

Oliver Wendell Holmes is credited with saying there are two classes of people in the world. One who go ahead and do something, and another who are always complaining that it is not done in a different way.

The weakest living creature, by concentrating his powers on a single object, can accomplish something. The strongest, by disposing of his overmanly, may fail to accomplish anything. The drop by continually falling, bores its passage through the hardest rock. The hasty torrent rushes over it with hideous uproar and leaves no trace behind.—Carlyle.

From the deep human heart to the Infinite there is a line along which will pass the real cry and the sympathetic answer—a double flash from the moral magnetism which fills the universe. Its conditions are not found in theological belief, but in the spirit of a little child.—Samuel Chapman Armstrong.

Would you feel deeply, you must think profoundly. Would you do grandly, you must buy the truth and sell it not. He who has the reverent mind will be in line with the best of mankind; he is in league with the saints and sages of history.—J. L. Jones.

The pocket mouse of the desert has a genuine fur lined "pocket" on the outside of its cheek. When it is hungry it takes food from its pocket with its paw, just as a man would pull a ham sandwich from his pocket.

Other creatures than the camel are able to get along for extended periods without drinking. Sheep in the northwestern deserts go from forty to sixty days in winter without drink, grazing on the green, succulent vegetation of that season.

Storks are not often seen on the American continent, but are commonly found in nearly all the countries of Europe. In Holland, where they are particularly numerous and are protected by law, their nests are generally on the summit of a tall post, put up on purpose for them on which is fixed an old cart wheel.

Eight ordinary hen's eggs were submitted to pressure applied externally all over the surface of the shell and the breaking pressure varied between 400 pounds and 675 pounds per square inch. With the stresses applied internally to twelve eggs these gave way at pressures varying between thirty-two pounds and sixty-five pounds per square inch. The pressure required to crush the eggs varied between forty pounds and seventy-five. The average thickness of the shells was 13-1,000 inch.

There are as many brave women as men, yet we see but few of their statues in the parks.

Horse radish came from the South of Europe.

The garden cress is from Egypt and the East.

Hemp is a native of Persia and the East Indies.

The Zealand flax shows its origin by its name.

Barley was found in the mountains of Himalaya.

The coriander grows wild near the Mediterranean.

The Jerusalem artichoke is a Brazilian production.

Writers of undeniable authority state that the cereals and others of these edible productions grow spontaneously in that portion of Tartary east of the Belar Tagh and north of the Himalaya mountains.

Fatal Results.—The cat, besides its liking for valerian, has shown a taste for caffeine, which brings painful and fatal results.

A Theory of Gravitation.—A new Scottish work attempts to prove—from geological phenomena—that gravitation is electrical and that it is identical with terrestrial and solar magnetism.

Durability of Woods.—In tests of the durability of woods, beech and aspen have decayed in three years, willow and chestnut in four years, maple and birch in five years, elm and ash in seven years.

"My son," said the fond father as he produced his light hickory cane, "I want you to understand that this hurts you a good deal more than it does me." "Father," replied the noble boy, "I'd sooner have a father that told the truth than take a thousand lickings."—Cleveland Plain Dealer.

A German anti-rust paper is described as being treated with sulphuric acid like vegetable parchment. Graphite is sprinkled on before, putting into water and the material is then sized with glue and alum, and covered with logwood. This paper is used for wrapping steel goods, such as sewing needles, to keep them from tarnishing.

The traveler on the great American railways has scarcely a want or a desire, natural or artificial, unfulfilled. He sleeps, eats, reads, writes, smokes, amuses himself, transacts business, bathes, and is shaved with the utmost comfort and safety while speeding over the country at the rate of fifty miles or more per hour.

Races of Europe.—In European races Huxley recognized two main stocks—the fair Caucasian and the dark Caucasian. Dr. Deniker believes there are six well marked races, viz.: (1) The blonde, wavy-haired, long-headed, long-faced and tall Northern race; (2) The Eastern race, also blonde, with straight hair, a rather short head, broad face, and short in stature; (3) The Ibero-Insular race, of Spain and Portugal, which is dark, very short, long-headed, with straight or retreating nose, and sometimes curly hair; (4) The Western race, dark, round-headed and short, with round face, broad nose, and thick-set body; (5) The Atlanto-Mediterranean coast race, very dark, long-headed, fairly tall; (6) The Adriatic race, on the Gulf of Venice, dark, short-headed, with slender or arched nose.

That some of the lower vertebrates possess a sense unknown to us has been made evident by the prolonged observations of M. Werner, a naturalist of Vienna. Not less than 136 individuals, one-third of them at liberty, have been studied and it has been made certain that reptiles and amphibians are so strongly attracted by water that they go straight toward it, even though it be so far away that no sense known to man can detect it. The new sense is supposed to depend upon some kind of chemical attraction, though how it acts and on what part of the body are mysteries.

Poetry vs. Prose.—"So," said the stern parent, "you want to marry my daughter, eh?" "Ah, yes!" sighed the romantic young man. "I would gladly lie down and die for her." "I'm afraid you won't do," replied the practical father. "What I want is a son-in-law who is willing to get up and hustle for her."—Chicago Daily News.

The roots of trees seem to vary in length and spread more than the branches. On moist land the roots of the largest trees go down only from six to ten feet, but T. R. Baker mentions that saw palmetto roots have been taken from a well in Florida at a depth of eighty feet, and in some of the Florida sand hills roots have been known to descend as much as 100 feet.

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Prof. H. E. Van Deman

Our Associate Editor

FORMERLY U. S. POMOLOGIST,

will be asked to decide which clipping is best.

Contest closes June 1 1905.

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I enclose clipping (selection or scrap) from \_\_\_\_\_ (name paper or book.) I also enclose 30 cents. This pays for one subscription to GREEN'S FRUIT GROWER one year, on your offer to allow 20 cents for the clipping. This also entitles me to \$100 in gold if the clipping I send is deemed the best of those sent in.

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### Romance of a Crocus.

Written for Green's Fruit Grower by Charles H. Bowie.

After the wealthy Mrs. Pendleton died the gossips were busy for some time telling of the strange document the eccentric old lady had left as her last will and testament, and later the frequenters of the courts heard very able arguments by prominent lawyers, as they endeavored to break this will, assisted by the testimony of several doctors, skilled in brain disease and insanity. The legal battle resulted in the wealth going to the contestants of the will, a son and two daughters.

Five years before Mrs. Pendleton died there had been a serious quarrel in the family resulting in the four children leaving home. Her favorite son, James, she soon wished back, but though she spent hundreds of dollars in the next three years trying to find him, she did not succeed, and believed him dead. Another also mourned his absence, a handsome young girl who had loved the warm-hearted impulsive youth with an affection that pervaded her whole being, and he had loved her no less passionately, but after years the young lady married another, Robert Sinclair, to please her parents. Then came ill fortunes; her

mother died, a little later her father, then her husband was stricken with paralysis and she had since supported him by keeping house for Mrs. Pendleton, she being the only one whom the eccentric old lady could keep.

When the strange will was broken the absent son was not considered, the property being divided equally among the three remaining children. There was one clause in the will that was carried out; a Crocus plant had been left to Agnes Sinclair. This and nothing more. The bright, yellow blossoms seemed to bring a ray of sunshine into the little, plain, bare room, as it awakened memories of other days, and Agnes softly wept. She had assisted her youthful lover, James Pendleton, to plant the Crocus bulb in the ground of his mother's estate, under the great willow at the edge of the pond. It was the forepart of a June evening, just as the shadow of the great tree had crept nearly across the water, and as the tiny bulb was set they renewed their pledge of love and wondered what the future held for them. Agnes Sinclair tried with a sincere earnestness to place the image of her husband before this lover of early days; she had been unable to do so but did not let this fact interfere with her duty as a wife. She worked faithfully for her unfortunate husband, doing double duty of wage earner and nurse.

One day there came to their cheerless home two brisk, business like men, who appeared greatly to admire the golden-yellow blossoms of the Crocus, and finally offered fifty dollars for it. For a moment Agnes was stunned, then dropping into a chair she wept in utter despair. The temptation was great. Fifty dollars! What a sum to this poor woman so sorely in need. She tried to say "Yes," but the word choked her and instead she only murmured: "O, I cannot! God knows I cannot, do not tempt me, all I have—all I have to remember me—"

"Well, I don't see but I've done my duty," I interrupted the small, brisk mannered man, turning to his companion, then to Agnes, "I've called on you, Mrs. Sinclair, by order of the late Mrs. Pendleton, and with your permission will read you a letter that has been in my possession some months." As he spoke he took from his pocket an envelope on which was written: "To be opened only by G. L. Havier, Attorney, or his successor, one hundred and seventy-two days after my death. Rebecca J. Pendleton."

Taking a paper from the envelope the attorney read: "To G. L. Havier, Attorney, or his successor: The enclosed money is to pay for the following service, which I feel sure you will attend to faithfully. Please go to the home of Mrs. Agnes Sinclair and ascertain if she has the Crocus plant I left her in the will. If she still has it, and the plant is in a healthy condition, offer fifty dollars for it. If she refuses this amount give her the enclosed key. If the plant can be bought for fifty dollars please purchase at this price and present both plant and key to the above mentioned trustees. May God Himself reward you, in His own way, for your faithful observance of this, my last commission. Rebecca J. Pendleton."

"Now, Mrs. Sinclair," remarked the lawyer, "I am pleased to do my duty by giving you the key, which is in a separate envelope, fastened with Mrs. Pendleton's seal. If I can help you further let me know. Good day."

Agnes was so surprised that for some moments she looked at the envelope in amazement, then mechanically broke the seal and took out a curious shaped key with a tag attached giving the address of a well-known Safe Deposit Company. Hastily donning a worn, faded cloak and her only hat she set out to solve the mystery, though the March wind pierced her threadbare garment like a million needles of ice. At the vault door, nearly exhausted, she hesitated while her bloodless lips moved in a brief prayer, then entered, opened the treasure drawer and there, before her astonished gaze was a heap of bright yellow gold and crisp bank notes. Could it be hers or was it a dream? She tried to count her fortune but left the task undone, hastened home and on the way purchased some dainties for her sick husband, whose welfare was her first thought.

A few days later there came to the Sinclair's humble home a tall, dark-eyed stranger. As Agnes answered his rap a pallor overspread her face and she sank to the floor with a half uttered word on her lips, "Ja—". Springing forward her visitor quickly lifted her in his strong arms and exclaimed passionately: "My God! Agnes, poor girl, forgive me! Are you dead? Speak to me Agnes! I could not leave until I saw you!" As she revived James Pendleton assisted her to a seat, and told the reasons for his long absence and unsuc-

cessful quest for gold in Alaska. Told of his failures, his hopes, fears, and—but we will go no further. Suffice it to say that the next day James again turned toward the setting sun, not penniless this time but carrying a substantial sum.

Two years have passed. It is a morning in early June, the birds are singing joyfully, the almost inaudible tones of the tiny cricket and locust fill the warm, still air. Everything reminds us of peace, of plenty, of love, of life—no, not everything of life for here is a little cemetery, with its shafts of cold, white marble reminding us that there is a transaction called Death. We are attracted to one of the best graves. Flowers cover it. Let us look at the inscription on the monument: "Robert Sinclair—Born—Died—Aged 38 years, 6 months, 4 days. Husband." A beautiful young woman enters the cemetery, and going to this grave places thereon more flowers. We recognize the fair Agnes, now in the prime of life, her years being yet below thirty.

It was soon reported that Alton Pendleton, the merchant, had failed, that the brownstone mansion he had received by breaking his mother's will, was to be sold at auction to satisfy his creditors. The home of the Pendletons for years was now to pass into other hands. The day arrived. Many rich men were there to purchase. Ten thousand—eleven thousand—twelve thousand, thus the bidding rose until eighteen thousand and five hundred dollars was reached, and the property was sold. The Pendleton property was destined to still bear the old family name; the rugged and tanned young bidder had not been recognized but was none other than James Pendleton, who had arrived just in time to hear of the auction at which he spent a part of the princely fortune he had so quickly taken from a gold mine.

That afternoon there might have been seen entering the grounds of the Pendleton estate, James and Agnes. They pass between the banks of flowers, they chatter and laugh, they cross a stream on a rustic foot-bridge, and as the shadows of the stately trees reach far over the meadow they stop under a willow on the bank of a pond. The willow is nearer maturity, it has weathered many storms, but has lost none of its beauty, neither has the young couple; they, like the tree, have been exposed to tempests, tempests of trouble. As they murmur words of love and watch the shadows of the willow again creep over the pond, a diamond sparkles in the rays of the setting sun and a ring is slipped on one of Agnes' fingers. A few days later as they were married in the parlor of the Pendleton mansion, the beautiful bride wore, not the fashionable orange blossoms nor the fragrant rose, but the modest little blossoms of the crocus.

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## Our Correspondence.



**While Others Grow Cotton, He Grows Fruit.**—While not rich in money we have four sweet little girls and five bright boys on our 100 acre farm, which we have named Little Beehive. This is the land of the cotton blossom. I am one of the few here who have abandoned cotton. I am gradually turning my land into a fruit and truck farm. A valuable new apple originated on my farm lately. I will send you seed of a valuable corn. Green's Fruit Grower is one of the best family papers I receive. Your references to boyhood days with illustrations make me feel acquainted with you. My boyhood days were largely spent roaming up and down the wooded streams with fishing line and gun.—J. W. Harris, S. C.

**Black Knot on Plum Trees.**—At Rochester, N. Y., we are not troubled with black knot on plums, but we hear complaint from other portions of the country, particularly where plum trees do not receive cultivation. I have noticed that where plum sprouts grow up in the fence corners thickly, crowding each other as they grow older, and where the soil is left to grow up to grass and weeds, where the trees receive no attention, that black knot sometimes attacks them. I recommend good cultivation, keeping the trees well pruned and sprayed. Under such treatment black knot will seldom appear, but if it does appear cut out all the affected branches and burn them without delay. Black knot is a fungus disease, and the Bordeaux spray with a little paris green in it, tends to destroy fungus growth on both the leaves and wood. The paris green in the spray aids in exterminating the curculio.

**Editor Green's Fruit Grower:** Great interest is being taken now in forestry and forestry commission not only in New Hampshire but in many parts of this country. Blue Mountain Forest Park, owned by the heirs of the late Austin Corbin, employs a graduate of Yale College to devise means to preserve the forest growth. In this park is a large herd of buffalo and other wild animals. The plan is to keep the park as nature planned it so that it will have no artificial appearance. Linden Park is located on the west shore of Lake Sunapee, N. H., in sight of the summer home of Colonel John Hay. Lake Sunapee is fast coming to be known as a summer resort. It lies high above the sea level, is easy of access from Boston and New York and is thought to equal Lake Geneva in Switzerland. Native trees growing in the forests where there are thickets or underbrush, are the worst to contend with. They have imperfect tops. Conifers growing close together soon lose their lower branches which once destroyed, never grow again. At Linden Park it has been decided that the best way to deal with such trees is to grow them in groups or pairs. Two trees close together form one head and are more beautiful than a single tree. We have not found of work on forestry treating on the care of trees for park purposes in natural parks such as we have to deal with. Growing trees to be used for fuel or lumber is a far different proposition from growing trees for shade and ornament. Can the readers of Green's Fruit Grower give us information on this subject?—Nicholas Simpson.

**My young plum orchard is thoroughly hoed and tilled until July 25th when all cultivation is stopped. I manure each spring with wood ashes. The trees make a growth of five to seven feet each season. I cut back the new growth to two feet and thin out branches when necessary. Is this good treatment?**—E. Meaker, N. Y.

**Reply:**—Your plum trees are making excessive growth. I assume that they may be the Burbank or some other rapid growers. Trees growing so rapidly do not bear fruit so early as those that grow more moderately. The average variety of plum when five or six years old does not make a new growth each year to exceed twelve or twenty inches and does not need much nipping of the ends of the branches when only moderate growth is made, but such rampant growers as Burbank must be headed back each year or they would sprawl over too much ground. Stop cultivation earlier.

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**Editor Green's Fruit Grower:**—I write this to thank you for your kindly interest in the Coffee Coolers of 61 and 65, also for your good wishes as expressed in the January number of your paper. Those who were not in the army can have but a faint idea at best as to how hard we fought and how we suffered during those awful years of blood and death. I sometimes think we are not appreciated as we should be, but when I read words kindly spoken of us I begin to think I was mistaken after all, for some have not forgotten to speak the kindly word that warms our hearts and cheers us on our march to the eternal camping ground. I also wonder how you guessed so close as to Old Soldiers being in the fruit business. It is a nice business but like any other business it requires ability to conduct it, as well as work, to make it a success, and one way of getting along to prosperity is to read your paper carefully and profit by the experiments of others. I find it good authority on horticulture.—J. N. Stanford, Tenn.

**In reply I will say that strawberries can be planted on soil that has been thoroughly cultivated the previous season, without again plowing. Harrow the surface, cultivate it thoroughly with a disc harrow or cultivator and make it very fine. Never think of planting strawberries until the soil is most thoroughly prepared and all the lumps reduced to the finest conditions possible. Any kind of small fruit plants will not survive if planted in lumpy ground which will not retain moisture. But I would prefer to plow before planting.**

**The Smoke Tree.**—Editor Green's Fruit Grower: I bought a large order of trees seven years ago. All lived, grew nicely. The Smoke trees grew fine and blossomed full, but never have any smoke on them. Can you tell me what the matter is? What will I do to make them smoke? We trimmed them, did everything we could to make them smoke. I am very much disappointed in the trees.—Subscriber.

**Reply:** The smoke tree is so called because when in bloom the tree looks as though enveloped in smoke. The bloom hides the foliage and is of a blue color like smoke. As a matter of fact no real smoke appears from the Smoke tree.

One or two tablespoonfuls of ammonia added to a pail of water will clean windows better than soap.

Many of the readers of Green's Fruit Grower are not aware of the marvelous progress made by Indian Territory, Oklahoma, New Mexico and other similar far away lands of this country. The history of the world has never equaled the rapid advance in farming, fruit growing, gardening, railroad construction and the general building up of towns and cities such as is now going on and has been going on during the past few years in some of the lands of the west, southwest and northwest of the United States. We have correspondents in the new territories. Some of them are Indians who are remarkable for their intelligence and enterprise, who write us occasionally of their progress. We are always glad to receive brief communications from distant subscribers as well as from those near by. The following is from one of our subscribers in the Indian Territory, which will be read with interest.

**Editor of Green's Fruit Grower:** The prospect for fruit in the Indian Territory was never better. Last summer was favorable for a heavy growth. The dry fall ripened the wood well and encouraged the roots of small fruits, etc., to extend down deep. The ground has been covered with snow almost all winter, something unusual here. Usually we have but little freezing weather after February 15th, thus we expect but little freezing and thawing after this date. Late spring frosts never do injury on the mountain flats or elevated places where our best orchards, vineyards and berry fields are located. I raise the Corsican strawberry. Last year they sold at \$2.40 per crate while other berries went begging at \$1.50 per crate. For long continued bearing, fine flavor, for largest size berries and ability to resist drought and neglect give me Corsican first, last and all the time.—D. N. Leerskov for Green's Fruit Grower.

**Mr. Berckman reports that farmers in Georgia have planted large orchards of mulberries, for food for swine, with excellent results. Verily the world moves. We knew the mulberry was good for chickens, silkworms and man, but never were practical enough to consider them hog feed.**

The mulberry is the queen of trees, bears long after the rest are green, but slowly she clothes herself with leaves, hides her fruit under them; hard to find. Bye and bye when the fruits are small to view, out she comes in her matron grace, with the purple myriads of her race, full of plenty from the root to crown, showering plenty her feet down; while far overhead hang gorgeously large, luscious berries of sanguine dye, for the best grows highest, always highest, upon the mulberry tree.—D. M. Mulock.

### CONCLUSIONS ABOUT SPRAYING

**Editor Green's Fruit Grower:** In combating both the codling moth and fungus diseases, spray at least four times. The first spray, applied before the buds open, is distinctively a fungicide, but the addition of some poison is useful to destroy the bud moths and canker worm. The second spraying of Bordeaux and arsenical poisons combined is most important and is applied just after the petals have fallen and before the calyx closes. Make it thorough.

The third spray of the same composition as the second, applied a week or ten days later, is chiefly to remedy the defects in the previous one, but also furnishes an additional supply of poison for the larvae just hatching out.

In the fourth spraying the amount of copper sulphate is reduced, the arsenical poisons being the same as in the other two applications. This is intended to catch the second brood of larvae and to continue the attack on fungus diseases.

Banding the trunks has proven a useful adjunct to spraying where the orchardist has time to give them the attention needed.

The results obtained and the satisfaction derived from spraying depends very largely upon its thoroughness. By all means spray systematically. Do not miss even the smallest branch. Remember that the eggs of one moth will produce numberless larvae and that one small area of fungus growth under favorable conditions will give off spores enough to infect an entire orchard with scab or bitter rot.—E. F. Stephens, Nebraska.

**Arsenate of Lead.**—We have been using arsenate of lead for spraying potatoes the last two seasons, and like it much better than Paris-green, says "Country Gentleman." I have used the home-made mixture, also Swift's arsenate of lead, and find that Swift's sticks a little better than the home-made, but costs more. I have used them both with Bordeaux, and if it can get dry on the vines before it rains it will take a very hard rain to wash it off. There is no danger of burning the vines with the lead as with Paris-green. We use about two pounds to a barrel of water.—E. J. B.

### MY IDEA OF GOD

Whence came we, whither do we go? Who placed us here and why were we placed here? What is our destiny? We are born, we live, we die. Will we live again? If we live again where will be our homes? What will be our condition? Will it be misery or happiness? These and similar questions are continually crowding upon the minds and hearts of the people of earth as they stand face to face with the great mysteries of life and death, but God's word, the Bible, answers them all.—A. F. Horning, Cal.

Should God suddenly cease to exist I imagine I would be like a small child whose parents had suddenly left it with no one to care for it. The future would seem dark and I could have no hope for a place after leaving this world. I would feel as if at sea with no captain or pilot and could not manage the ship myself.—Albert A. Bugbee, N. Y.

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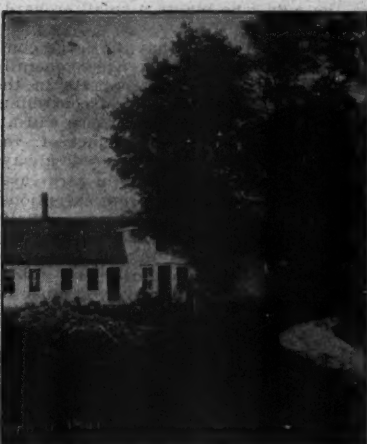
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Green's Fruit Grower has many subscribers in New Hampshire and other eastern states. Our editor spent some time in New Hampshire not long ago, stopping at Concord nearly a week and then going northward over the Boston and Maine railroad to the White Mountain region, passing through what is known as the Switzerland of America. Our editor has spent some time in Switzerland and he has no hesitation in saying that the scenery of New England is scarcely surpassed by that in Switzerland. Many of the New Hampshire lakes are as beautiful as the imagination can picture them. The above photograph is of a prosperous New Hampshire farm home. If rural people and others understand fully how greatly forest trees add to the beauty of the home there would be less treeless homes and less farms destitute of these beautiful nature adornments. Notice the attractive circular driveway which leads near the house and on to the farm barns and other out-buildings.

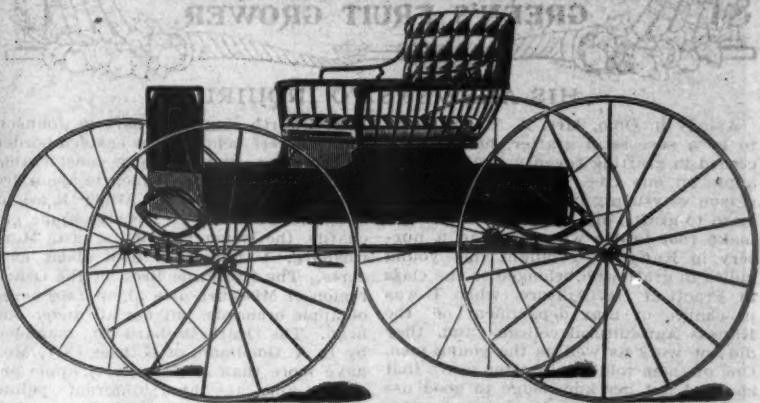
Transplanting.—Numbers of trees with good roots and well planted, die after removal, simply from a weakened constitution brought about by poor living. Another capital fact of practical value to transplanters has been developed which is only just now becoming well known. It has always been understood in this country that a transplanted tree is safer for being pruned, but the pruning generally consisted of shortening in all branches, strong as well as weak. But it is now found that the tree should not be shortened in, but merely thinned out. All the weaker branches should be cut out, and the strong ones left. Any extensive planter who has read of these things in our pages will have saved his subscription price a hundred times over. And then there is the practice becoming now better known than others, that it is not possible to pound the earth too tight about a transplanted tree. It is not possible to avoid all risks in transplanting. The art will never be so perfected that some will not die; and mortality, where all the conditions can be controlled, will be less than ever before.

Mr. E. H. Lowe of the New York Experiment Station, and also the Ohio Experiment Station have been experimenting with the lime, sulphur and salt spray for leaf curl. The first photograph shows an orchard of Elberta peach trees that were not sprayed; the result is that trees are almost leafless. The lower photograph shows an orchard sprayed and the result is healthy foliage. The spraying was done June 25th. Elberta is more subject to leaf curl than peaches ordinarily. Green's Fruit Grower readers will find evidence of the value of lime, sulphur and salt spray for leaf curl should their trees at any time be attacked. This leaf curl usually occurs early in the spring and is supposed to result from fungus attack. The photographs were kindly loaned by the Ohio Experiment Station.

Dwarf pears are particularly valuable for the city or village garden where space is limited. A vast amount of superior fruit can be grown upon a single row of dwarf pears planted closely together through the garden, where they will occupy but little space, if the trees are cut back every year, removing nearly all of last season's growth. Do not fail to plant an assortment of varieties of dwarf pear trees in a row through your garden, setting trees three feet apart in the row. This row will in no wise prevent your plowing the garden or cultivating it with a horse cultivator.

Mrs. C. A. Green's recipe for making ice cream. Published by special request: One quart of cream, one pint of milk, three eggs, sugar and flavoring to taste. Heat the milk and dissolve the sugar in it. When cold, add to the cream. Beat the eggs thoroughly and strain them, then add eggs and the flavoring to the other ingredients just before freezing.

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## PROFESSOR H. E. VAN DEMAN, Associate Editor of— GREEN'S FRUIT GROWER.

### HIS ANSWERS TO INQUIRIES.

A lady in Ohio, Mrs. A. T. P., seems to be a successful grafter, having succeeded in grafting seven varieties of the apple on one tree. There is no good reason why many more women may not learn to graft. My wife often helped me make root grafts when we had a nursery in Kansas. I taught the young ladies to graft who belonged to the class in Practical Horticulture, when I was in charge of that department of the Kansas Agricultural college, and they did the work as well as the young men. One of them told me in after years that she had put her knowledge to good use in a nursery and would always be able to do any grafting that she might need done.



Mrs. A. T. P. has more Roxbury Russet apple trees than she needs and wishes to know if she can graft White Pippin and Grimes on some of them with good results, also Western Beauty on Baroni. She fears the flavor of the apples on the grafted parts will be changed by the sap of the stock, as she says she has noticed in other cases of grafting. This I seriously doubt, although there are some who contend that they have seen such changes. I never have seen any such, although I have intergrafted thousands of trees of various kinds, many of them differing in flavor of fruit as much as it is possible to find. We have the sweetest of pears on quince stocks; and there is no sourer fruit than the quince.

This lady wants to know how to graft rose bushes. It can be done by any of the methods of grafting, and is no more difficult than to graft the apple. The tongue graft would be very good for small stocks, and the split graft for large ones. If done under the ground it would not be necessary to wax the place of union. The time to do it is late in March or during April in Ohio, when the sap is beginning to become active, and yet the buds are not swelling. It can be done later if the scions are kept in a dormant condition.

She also wishes to know which of the strawberries would be the best to plant "in a clay soil, twenty-five miles southwest of Columbus," for home and market uses. She has planted several good kinds that she names but they have not done well. Now she proposes to try an old clover sod that has been one year cultivated to corn. I think such land would be good for strawberries. I have often been through her part of the country in my younger days and think there must be some lack of attention or other local cause for failure of good results. I would go to the nearest successful strawberry grower, on similar land, and get advice as to varieties and methods of culture. I would suggest Aroma and Splendid for trial.

She asks about spraying to prevent plum rot. Bordeaux mixture is the thing to use. It should be applied before the trees start their buds this spring and several times during the summer. Get a spray calendar from the Ohio experiment station at Wooster and follow its directions.

1—Will you please mention a few of the larger apple orchards of the country, stating who owns them and how many acres each embraces, also a few of the larger peach orchards with the name of the owner and the number of acres?—R. L. B. of Mass.

The largest single ownership of apple orchards, so far as I know, is by F. Wellhouse & Son of Kansas. At last accounts they had over 1,800 acres. They are not all in one place, but some in

Leavenworth county, a part in Johnson county, these being on the eastern border of the state, and a very considerable part in Osage county, which is about 100 miles to the west. The Miller Bros. of West Virginia, have extensive apple orchards, the larger part being near Martinsburg. I think they own about 1,000 acres. The Hazeltine Bros. of the Ozark region of Missouri, own about 2,000 acres of apple orchards, but not all under one head. The Ozark Orchard Co., managed by L. A. Goodman, of Kansas City, Mo., have more than 1,000 acres of apple orchards and at three different points along one of the railroads running south from that city. The first one is at Goodman, Mo., the second at Lanagan, Mo., and the third at Gentry, Ark. At Alden, Mo., the Alden Fruit Co. have about 1,000 acres of apple orchards. This is largely owned and managed by J. C. Evans & Sons. Near Lebanon, Mo., there is a newly planted apple orchard owned by a stock company and managed by A. E. Nelson, that is expected to exceed all others in size, but as yet does not much exceed 1,000 acres. Near Roswell, New Mexico; in Western Colorado; the Snake River Valley of Idaho; the Hood River and Rogue River valleys of Oregon; near Missoula, Montana; and in Southern Illinois there are many large apple orchards, some of which I know and have visited, but many of them I have not seen, nor do I know their acreage or ownership.

The most successful of the very large peach orchards, and perhaps the largest one is that of the Hale Georgia Orchard Co. at Fort Valley, Ga. There are about 2,000 acres in it. The Ohio Orchard Co. has another of about the same size, and in the same vicinity. The McNair peach orchards of Koshkonong, Mo., are of about the same extent. Those of the Ozark Co. at Goodman and Lanagan, Mo., are 1,000 acres or more. The Alden Fruit Co. has about 1,000 acres in peaches. There is now being planted in Eastern Texas, by Roland Morrill of Michigan, a peach orchard of over 2,000 acres, but it is not completed nor are the first trees set quite old enough to bear. The Miller Bros. of West Virginia, have about 1,000 acres in peaches. J. H. Hale has several peach orchards in Connecticut that aggregate about 500 acres. There are others in the same state of about equal size. At Grand Junction, Colorado, there are several large peach orchards, and in California there are many of from 500 to 1,000 acres in extent. Western Michigan has many of 100 acres and more.

2—What effect will the planting of large orchards have upon the prospects

of the man who plants a small orchard?—A. J. C., N. Y.

There is no doubt that the large commercial orchards, which are generally planted or managed by experts in the business will have an almost controlling influence in the markets. There will always be room for the product of the smaller grower. Good fruit will always sell at a fair price, except in rare cases of gluts in the markets from exceptional causes. The big growers, who usually have a keen conception of profit and loss and will continue to spray and use all other means to produce good grades of fruit. The smaller grower must do the same or be left in the race for the best prices.

The small grower has the advantage of the business of the small, local markets, and this, if properly handled, is the best part of the trade. The gluts are not felt there as soon or as forcibly as in the big markets.

It has been stated "that if a heap of manure be placed on one side of an apple tree the branches on that side will produce fruit while other parts of the tree may be barren, which confirms the belief that the plant food taken up by certain roots is devoted to maintaining corresponding parts of the tree rather than going into a common stock to be drawn upon alike by all, which may account for dead limbs on trees." Is this correct?

Reply: No, I do not think this theory is borne out by facts as they occur, except in a modified way. The circulation of sap in a tree does not adhere to vertical lines, that is, pass only up and down the tree, but is carried sidewise to a very considerable extent. However, it is easier for the sap to pass up and down than sidewise, and we see more growth on one side than on another, occasionally, where there has been more fertility applied; or, less vigor on a portion of a tree where some injury has interrupted the circulation. But we also see a narrow strip of bark retain the life of a whole tree for years, and in such cases it is apt to continue enlarging at the living point of connection until it will completely heal over the wounded part. We can and often do nourish all parts of a tree by feeding it through the roots on one side.

What can be done to induce the farmers to have a better supply of fruits for home use, especially of the berries?—A. L. B., Indiana.

This is a very puzzling question and a most serious one, too. There is really no good excuse for farmers being without a liberal supply of the best of fruits of all kinds that are suited to the conditions of climate and soil under which they live. They are generally kept from growing them, so I believe, by the fear that there is too much work about growing fruits. This is far from true. There is really very little that a farmer can produce at home that will cost so little for the labor expended as fruits. The expense for the trees and plants is

also trifling; for the best of them can be had at less than half what they once cost. There is positively no excuse on the score of the cost of the stock to plant.

The only way that I know to impress these ideas on the minds of farmers is to continue to "preach" to them the sound doctrines of horticulture and if possible induce more of them to try a few things at first. If they will use their horse cultivators in the berry patches as much as possible, and not act on the belief that the hoe is the chief tool to be used in them they will soon learn that the work is not half so tedious and expensive as they imagined.

H. E. Van Deman.

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### HAND BAG



This beautiful hand or wrist bag is the newest design lined with silk moiré. Has an inside pocket containing separate purse, silver clasp, fancy braided leather handle. We will give you this bag free for simply selling six "Up-to-date" Skirt and Waist Supporters as 25c each. You need no money, just your name and address. We then send you postpaid six of the Supporters. When you have sold them, return us the

\$1.50 and your Handsome Hand Bag will be shipped promptly. You take no risk. We treat you with our goods, and take back what you can't sell. Nothing could be easier. The "Up-to-date" is the simplest and most serviceable article of its kind on the market to-day. Does not require the sewing of any hooks, buttons, etc., on either Waist or Skirt, and the Only one with the Dip Front Effect attachment. Used by ladies, young and old. Write to-day and also receive our large list of premiums offered. THE UP-TO-DATE MFG. CO., Dept. 46, 350 West 116th St., New York City.

## CREAM SEPARATOR FREE

This is a genuine offer made to introduce the Peoples Cream Separator in every neighborhood. It is the best and simplest in the world. We ask that you show it to your neighbors who have cows. Send your name and the name of the nearest freight office. Address: PEOPLES SUPPLY CO., DEPT. 127, KANSAS CITY, MO.

## PATENT YOUR IDEAS

\$100,000 offered for one invention. \$3,500 for another. Book "How to Obtain a Patent" and "What to Invent" sent free. Send rough sketch for free report as to patentability. We advertise your patent for sale at our expense. CHANDLER & CHANDLER, Patent Attorneys, 984 F Street, Washington, D. C.

## EVERGREENS

Forest trees, nursery grown and hardy everywhere. All sizes for all purposes, at lowest prices. 50 bargain lots, all first class, prepaid, \$1 to \$10 per lot. Catalogue and bargain sheet free. S. H. H., Evergreen Specialist, Denver, W.

## \$39.50 BUYS THIS

We save you dealer's profit. Ship us your 30 days free trial. Money back if not satisfactory. Send for 300 page book containing 124 wonderful bargains. UNION BUGGY CO., Dept. 853, Pontiac, Mich.

# We Will Buy

A 50c. Bottle of Liquozone and Give it to You to Try.

We want you to know about Liquozone, and the product itself can tell you more than we. So we ask you to let us buy you a bottle—a full-size bottle—to try. Let it prove that it does what medicine cannot do. See what a tonic it is. Learn that it does kill germs. Then you will use it always, as we do, and as millions of others do.

This offer itself should convince you that Liquozone does as we claim. We would certainly not buy a bottle and give it to you if there was any doubt of results. You want those results; you want to be well and keep well. And you can't do that—nobody can—without Liquozone.

### We Paid \$100,000

For the American rights to Liquozone. We did this after testing the product for two years, through physicians and hospitals, after proving, in thousands of different cases, that Liquozone destroys the cause of any germ disease.

Liquozone has, for more than 20 years, been the constant subject of scientific and chemical research. It is not made by compounding drugs, nor with alcohol. Its virtues are derived solely from gas—largely from oxygen gas—by a process requiring immense apparatus and 14 days' time. The result is a Liquid that does what oxygen does. It is a nerve food and blood food—the most helpful thing in the

world to you. Its effects are exhilarating, vitalizing, purifying. Yet it is a germicide so certain that we publish on every bottle an offer of \$1,000 for a disease germ that it cannot kill. The reason is that germs are vegetables; and Liquozone—like an excess of oxygen—is deadly to vegetable matter.

There lies the great value of Liquozone. It is the only way known to kill germs in the body without killing the tissue, too. Any drug that kills germs is a poison, and it cannot be taken internally. Every physician knows that medicine is almost helpless in any germ disease.

### Germ Diseases.

These are the known germ diseases. All that medicine can do for these troubles is to help Nature overcome the germs, and such results are indirect and uncertain. Liquozone attacks the germs wherever they are. And when the germs which cause a disease are destroyed, the disease must end, and forever. That is inevitable.

Asthma	Hay Fever—Influenza
Abcess—Anemia	Kidney Diseases
Bronchitis	La Grippe
Blood Poison	Liver Troubles
Bright's Disease	Malaria—Neuralgia
Bowel Troubles	Many Heart Troubles
Coughs—Colds	Piles—Pneumonia
Consumption	Pleurisy—Quinsy
Colic—Croup	Rheumatism
Constipation	Scrofula
Cataract—Cancer	Skin Diseases
Dysentery—Diarrhea	Stomach Troubles
Dandruff—Droopy	Throat Troubles

Dyspepsia—Erysipelas  
Fever—Gallstones  
Goitre—Gout  
All diseases that begin with fever—all inflammation—all catarrh—all contagious diseases—all the results of impure or poisoned blood.  
In nervous debility Liquozone acts as a vitalizer, accomplishing what no drugs can do.

### 50c. Bottle Free

If you need Liquozone, and have never tried it, please send us this coupon. We will then mail you an order on a local druggist for a full-size bottle, and we will pay the druggist ourselves for it. This is our free gift, made to convince you; to show you what Liquozone is, and what it can do. In justice to yourself, please, accept it to-day, for it places you under no obligation whatever.

Liquozone costs 50c. and \$1.

### CUT OUT THIS COUPON

For this offer may not appear again. Fill out the blanks and mail it to The Liquozone Company, 458-464 Wabash Ave., Chicago.

My disease is.....  
I have never tried Liquozone, but if you will supply me a 50c. bottle free I will take it.

Give full address—write plainly.  
Any physician or hospital not yet using Liquozone will be gladly supplied for a test.



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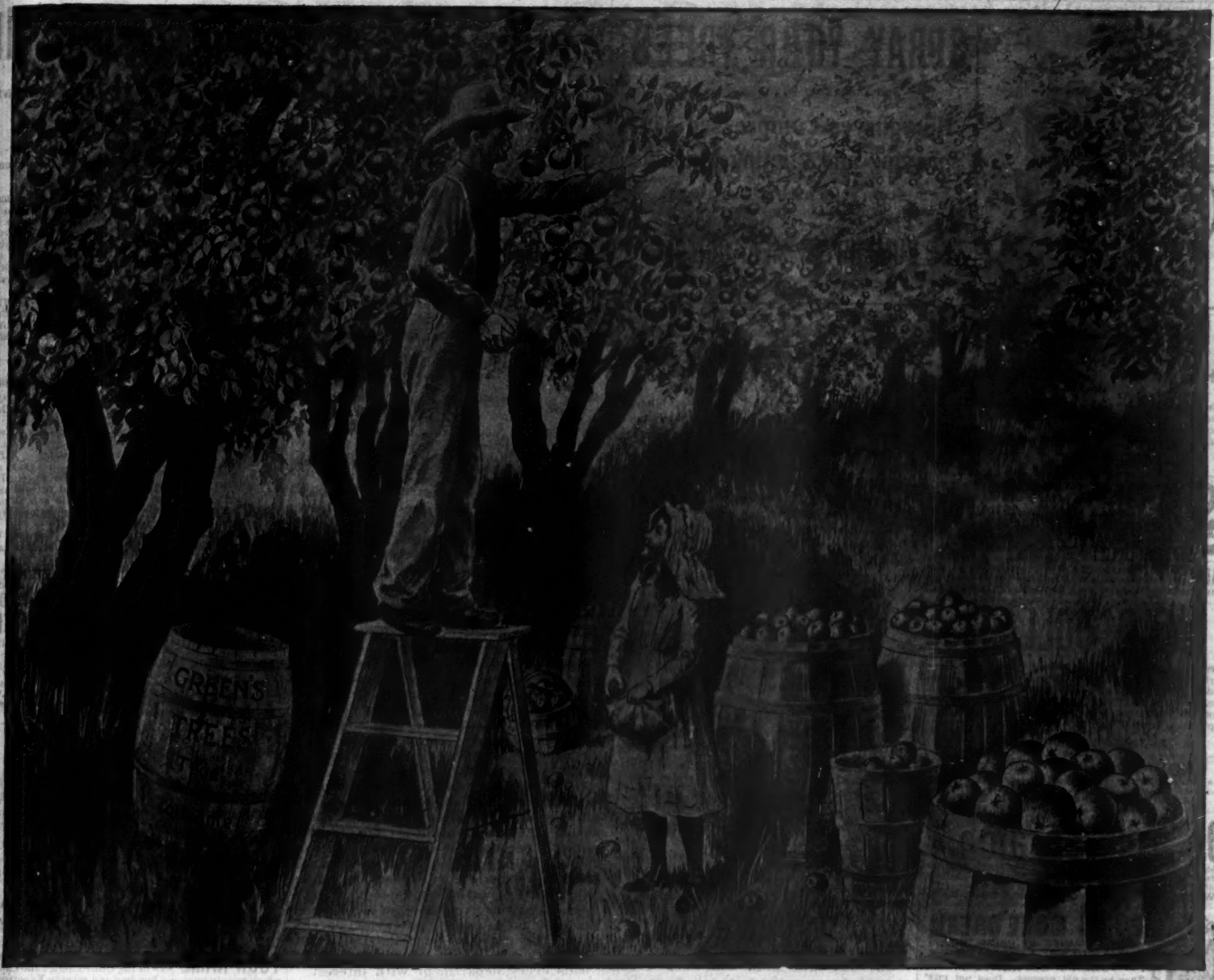
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# This is Green's 27th Year as a Nurseryman.

Boxing and packing FREE THIS YEAR for all sales at Catalogue prices.

The Catalogue of Green's Nursery Co. gives much information to Orchardists and Growers of Small Fruits. It is sent free only when sent for.

If you want Green's Catalogue apply for it by postal card. Notice our Supply Department offering Fruit Grower's Implements, Berry Baskets and Crates, Spray Pumps and Spray Solutions, etc., also our Poultry Department offering High Bred Poultry, Poultry Supplies, and eggs for hatching. Send for this catalogue to-day.

## NEW FRUITS

We offer this year for the first time Regal, the new hardy, long-keeping red grape, vigorous, productive and desirable. Also, Wismer's Dessert, American Blush, Banana, Green's Improved Baldwin, Bismarck, and other rare apples; also, Niagara, best of peaches; also, Bing Cherry, Gans new early pear; Thanksgiving, long keeping prune; Red Cross and Wilder currants.



**"THIS IS THE WAY"**  
I order trees. I send for Green's Catalogue, and find in it an order sheet. I make out the order, buy a money order for the sum of money needed, place all in self-addressed envelope, and mail it to Green's Nursery Co., Rochester, N. Y. Having dealt with them for 15 years I know them to be trustworthy."

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